

BOARD MEETING AGENDA

Board Room Coon Creek Watershed District Offices Monday, June 17, 2024 12:00 p.m.

Board of Managers:

Jim Hafner, President; Erin Lind, Vice President; Jason Lund, Secretary; Mary Campbell, Treasurer; Dwight McCullough, Member at Large

Note: Individuals with items on the agenda or who wish to speak to the Board are encouraged to be in attendance when the meeting is called to order.

- 1. Call to Order
- **2.** Approval of the Agenda (Additions/Corrections/Deletions)
- 3. Announcements
- 4. Open Mic/Public Comment

Members of the public at this time may address the Board, for **up to three minutes**, on a matter not on the Agenda. Individuals wishing to be heard must sign in with their name and address at the door. Additional comments may be accepted in writing. Board action or discussion should **not** be expected during the presentation of public comment/open mic. Board members may direct staff to research the matter further or take the matter under advisement for consideration at a future Board meeting.

CONSENT ITEMS

The consent agenda is considered as one item of business. It consists of routine administrative items or items not requiring discussion. Items can be removed from the consent agenda at the request of a Board member, staff member or a member of the audience.

5. Approval of Minutes of June 10, 2024

POLICY ITEMS

6. Election of Officers

PERMIT ITEMS

- 7. Allstate Distributions Commercial Building
- 8. Logan Park
- 9. 2024 SW Street Reconstruction

DISCUSSION ITEMS

10.Administrator Review (At Board Meeting – ABM)

INFORMATIONAL ITEMS

11.6PPD-Q and research collaboration by USGS with CCWD

ADJOURN

COON CREEK WATERSHED DISTRICT BOARD OF MANAGERS' MEETING

The Board of Managers of the Coon Creek Watershed District held their regular meeting on Monday, June 10, 2024, at the Coon Creek Watershed District Office.

1. Call to Order

The meeting was called to order at 5:30 PM

Board Members Present: Erin Lind, Jim Hafner, & Dwight McCullough

Board Members Absent: Jason Lund & Mary Campbell

Staff Present: Tim Kelly, Bobbie Law, Jessica Lindemyer, Abbey Lee, Jon Janke &

Michelle Ulrich

2. Approval of the Agenda

Board Member McCullough moved to amend the agenda, moving Permit Items 11,12, and 13 to the Consent Agenda. Seconded by Board Member Lind. The motion carried with 3 yeas (Board Members Lind, Hafner, and McCullough) and no nays.

Board Member Lind moved to approve the amended agenda. Seconded by Board Member McCullough. The motion carried with 3 yeas (Board Members Lind, Hafner, and McCullough) and no nays.

3. Announcements

None.

4. Open Mic/Public Comment

No one was present for comment.

CONSENT ITEMS

5. Approval of Minutes of May 28, 2024

8. Approval of Bills:

Claims totaling \$47,961.27 on the following disbursement list will be issued and released upon Board approval.

Vendor	Amount
V0002DOERING, DAWN R	27.45
V0008US BANK	4,569.93
V0010A1 FLOOR AND CARPET CARE INC	1,076.25
V0024CITY OF ANDOVER	1,284.67
V0030CONNEXUS ENERGY	232.42
V0052LOFFLER COMPANIES INC	119.69
V0052LOFFLER COMPANIES INC	170.78
V0054MICHELLE J ULRICH PA	5,482.00
VOI38RMB ENVIRONMENTAL LABORATORIES INC	1,125.00
V0221ABDO LLP	3,327.50
V0221ABDO LLP	940.00
V0237EMMONS AND OLIVIER RESOURCES INC	2,268.00
V0242METRO I NET	1,528.18
V0242METRO I NET	5,398.00
V0247POOP 911 OF MPLS STP LLC	731.40
V0249PLAUDIT DESIGN	480.00
V0265MANOR ELECTRICAL INC	700.00
V0299MP+G MARKETING SOLUTIONS LLC	18,500.00
Grand Total	47,961.27

Minutes: Coon Creek Watershed District Board of Managers, Page 2 of 4

The following Permit Items were moved to the Consent Agenda.

11. 24-009 Airport Road

The purpose of this project, located in Blaine, is for a reclamation and partial reconstruction of Airport Road and an in-kind culvert replacement.

The staff recommendation was to approve permit application number P-24-009 with 2 conditions and 2 stipulations as presented in the staff report:

Conditions to be Met Before Permit Issuance:

Rule 2.7 - Procedural Requirements

Submittal of a performance escrow in the amount of \$6,455.00.

Rule 4.0 - Soils and Erosion Control

- 2. Update the erosion and sediment control plan to include the following:
 - 1. Update Sheet C041 to stabilize soils and soil stockpiles within 24 hours of inactivity.
 - Show double row of perimeter control on west side of Airport Road due to potential nearby wetlands.

Stipulations: The permit will be issued with the following stipulations as conditions of the permit. By accepting the permit, the applicant agrees to these stipulations:

- Submittal of as-built (invert, pipe material, pipe size) for culvert installation within County Ditch 41.
- If dewatering is required, provide DNR dewatering permit prior to construction. If a DNR permit is not required, provide well-field location, rates, discharge location, schedule and quantities prior to construction.

12. 24-024 Trunk Water & Sewer Main

The purpose of this project, located in Andover, is to directional drill for sanitary sewer and water main utilities, open-cut installation of sanitary sewer and water main utilities, and pavement patch reconstruction.

The staff recommendation was to approve permit application number P-24-024 with 2 conditions and 1 stipulation as presented in the staff report:

Conditions to be Met Before Permit Issuance:

Rule 2.7 – Procedural Requirements

Submittal of a performance escrow in the amount of \$4,850.00.

Rule 4.0 - Soils and Erosion Control

Update the erosion and sediment control plan to include double rows of perimeter control near delineated wetlands and the stabilization of soils within 24 hours of inactivity.

Stipulations: The permit will be issued with the following stipulations as conditions of the permit.

By accepting the permit, the applicant agrees to these stipulations:

 Submittal of as-builts for the watermain crossing under County Ditch 20 that shows 4foot separation is maintained between the bottom of ditch (870.8 ft, NAVD 88) and top of utility line.

13. 24-025 Bunker Hills Beach Water & Sewer

The purpose of this project, located in Andover, is to install sewer and water utilities.

The staff recommendation was to approve permit application number P-24-025 with 2 conditions as presented in the staff report:

Conditions to be Met Before Permit Issuance:

Rule 2.7 - Procedural Requirements

Submittal of a performance escrow in the amount of \$2,220.00.

Rule 4.0 - Soils and Erosion Control

Update the erosion and sediment control plan to include a note to stabilize soils within 24 hours of inactivity.

Board Member McCullough moved to approve the consent agenda items. Seconded by Board Member Hafner. The motion carried with 3 yeas (Board Members Lind, Hafner, and McCullough) and no nays.

POLICY ITEMS

9. Election of Officers

Board Member Lind moved to table agenda item 9, election of officers, until the June 17th regular Board meeting. Seconded by Board Member McCullough. The motion carried with 3 yeas (Board Members Lind, Hafner, and McCullough) and no nays.

10. Annual Public Meeting on Storm Water Pollution Prevention Plan (SWPPP)

Mr. Kelly noted that holding an annual public meeting is a requirement of the MS4 program. He explained that the lack of turnout for these meetings is an "age-old issue" and is common across the State of Minnesota. No one from the public was present for the annual public meeting, but a slideshow was presented to the Board regarding the District's MS4 SWPPP efforts. The staff made the recommendation to hold the public meeting, call for comment, and then adjourn.

President Hafner called to order the public meeting .

Mr. Kelly gave a presentation on the SWPPP program, highlighting the program's history, purpose, requirements, and control measures.

Board Member Lind moved to close the annual public meeting on Stormwater Pollution Prevention Plan. Seconded by Board Member McCullough. The motion carried with 3 yeas (Board Members Lind, Hafner, and McCullough) and no nays.

Minutes: Coon Creek Watershed District Board of Managers, Page 4 of 4

Board Member Hafner moved to receive the report. Seconded by Board Member Lind. The motion carried with 3 yeas (Board Members Lind, Hafner, and McCullough) and no nays.

PERMIT ITEMS

All permit items were moved to the consent agenda.

DISCUSSION ITEMS

14. 2025 Program Budget

Mr. Kelly advised the program budget is in draft form. It was explained that what is currently presented is the projected full expenditure side of the budget; with revenue details to come later in July.

The Board discussed the pet waste station program with a focus on plans to expand the program. Administrator Kelly explained that the program would be built upon in the coming year. The continuation of the program will include a community survey.

Board Member Lind moved to receive the report. Seconded by Board Member McCullough. The motion carried with 3 yeas (Board Members Lind, Hafner, and McCullough) and no nays.

15. 2024 Tour Itinerary

Mr. Kelly highlighted the date for the tour next week, June 17th at noon. A tour will follow the regular meeting. He highlighted the different format of the tour that is planned with multiple stops looking at 3 focused areas/projects. The Board agreed that they were pleased with the proposed tour route and schedule proposed by staff. No additional stops were added to the tour based on the discussion .

INFORMATIONAL ITEMS

This article outlines Anoka County's action and the collaborative nature of the proposed Lower Coon Creek project. Mr. Janke outlined the project schedule. The project is scheduled to go out for bid in the summer of 2024 and begin construction in the winter of 2024-25.

ADJOURN

Board Member McCullough moved to	<u>adjourn at 6:12 p.m.</u>	<u>. Seconded by</u>	<u>/ Board Member</u>
Lind. The motion carried with 3 yeas	(Board Members Line	d, Hafner, and	l McCullough)
and no nays.			

President		

COON CREEK WATERSHED DISTRICT **Request for Board Action**

MEETING DATE: June 17, 2024

AGENDA NUMBER:

Election of Officers ITEM:

POLICY IMPACT: Policy

ACTION REQUESTED

Hold elections for required statutory offices

BACKGROUND

The District has traditionally held elections for Board offices at the first meeting following the organic date and potential appointment of new Manager(s) by the County Board.

PERTINENT FACTS

Minnesota Statutes 103D.315 Subd. 3. Officers. ...the managers must elect different managers as president, secretary and treasurer.

District Bylaws, adopted in 2023 (Article VI, Section 1), stipulates that the Board of Managers shall have four officers:

- 1. President
- 2. Vice-President3. Secretary
- 4. Treasurer

ISSUES/CONCERNS/RISKS

Current Officers

Office	2022	Elect
President	Jim Hafner	
Vice-President	Erin Lind	
Secretary	Jason Lund	
Treasurer	Mary Campbell	

OPTIONS FOR ACTIONS

1. Hold elections for each office

RECOMMENDATION

Hold elections for all offices.



Permit Application Review Report Date: 6/12/2024

Board Meeting Date: 6/17/2024

Agenda Item: 7

Applicant/Landowner: Glen Harstad 14152 Terrace Blvd Ham Lake, MN 55304

Project Name: Allstate Distributions Commercial Building

Project PAN: P-24-026

Project Purpose: construct a commercial building, drive-in doors, and parking with associated

stormwater treatment features

Project Location: 13850 Lincoln Street NE, Ham Lake

Site Size: size of parcel - 2.26 acres; size of disturbed area - 2.1 acres; size of regulated impervious

surface - 1.05

Applicable District Rule(s): Rule 2, Rule 3, Rule 4, Rule 5, Rule 6

Recommendation: Approve with 3 Conditions and 2 Stipulations

Description: The project proposes the construction of a new commercial building, parking, and associated stormwater treatment features. The project will disturb 2.1 acres and create 1.05 acres of new/regulated impervious. The site is within the County Ditch 57 subwatershed and largely drains through an existing regional pond and towards County Ditch 59-1. The relevant water resource concerns are stormwater treatment, erosion and sediment control, wetlands, and floodplain. These correlate to District Rules 3, 4, 5 and 6. See attached Figure 1: Project Location and Figure 2: Site Plan.

Conditions to be Met Before Permit Issuance:

Rule 2.7 – Procedural Requirements

1. Submittal of a performance escrow in the amount of \$3,050.00.

Rule 3.0 - Stormwater Management

2. Provide proof of recording of a fully executed Operations and Maintenance Agreement for the perpetual inspection and maintenance of all proposed stormwater management practices after review and approval by the District.

Rule 4.0 – Soils and Erosion Control

3. Update the erosion and sediment control plan to stabilize soils and soil stockpiles within 24 hours of inactivity.

Stipulations: The permit will be issued with the following stipulations as conditions of the permit. By accepting the permit, the applicant agrees to these stipulations:

- 1. If dewatering is required, provide DNR dewatering permit prior to construction. If a DNR permit is not required, provide well-field location, rates, discharge location, schedule and quantities prior to construction.
- 2. Submittal of as-builts for the stormwater management practices and associated structures listed in Tables 2 and 3, including volume, critical elevations and proof of installation for hydrodynamic separators.

Exhibits:

Exhibit Type	Exhibit Author	Signature Date	Received Date
Joint Application	Jacobson Environmental PLLC	05/06/2024	05/06/2024
Wetland Delineation	Jacobson Environmental, LLC.	04/30/2019	05/06/2024
Site Drainage Narrative & Calculations	Plowe Engineering, Inc.	05/23/2024	05/24/2024
Geotechnical Report	Haugo Geotechnical Services	05/15/2024	05/24/2024
Geotechnical Exploration Report	Haugo Geotechnical Services	03/23/2020	05/24/2024
Site Survey	E.G. Rud & Sons, Inc.	05/02/2024	05/07/2024
Construction Plans	Plowe Engineering, Inc.	05/23/2024	05/24/2024

Findings

Fees and Escrows (Rule 2.7):

The applicant has submitted a \$4310 application fee and deposit which corresponds with the nonrefundable application fee (\$10), base fee for a Commercial/Industrial Development project of 2.26 acres (\$4,000.00), and addition to base fee (\$300.00). The applicant will be required to submit a performance escrow in the amount of \$3050.00. This corresponds to a base escrow of \$2,000, plus an additional \$500/acre of disturbance (2.1 acres of land disturbance proposed).

Stormwater Management (Rule 3.0):

Rule 3.0 applies to the proposed project because it includes land disturbing activities creating a cumulative total of 10,000 sf or more of new or fully reconstructed impervious surface.

The Hydrologic Soil Group (HSG) of soils on site are HSG B. The proposed project incorporates soil amendments in accordance with District guidelines.

Rate Control: Peak stormwater flow rate at most points of site discharge does not increase from the pre-development condition for the 24-hour precipitation event with a return frequency of 2-, 10-, 100- years as shown in Table 1. The minor increases in the 2-year event for both discharge points are within model tolerance. The project will not impact Drainage Sensitive Use areas. The rate control standard is met.

Point of	2-year (cfs)	10-year (cfs)	25-year (cfs)	100-year (cfs)
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Discharge	Existing	Proposed	Existing	Proposed	Existing	Proposed	Existing	Proposed
Lincoln St	0.1	0.16	0.45	0.43	0.77	0.7	1.43	1.27
East - Regional Pond	0.29	0.44	1.01	1	1.77	1.58	2.99	2.45

Table 1.

<u>Volume Control</u>: The proposed project is new development; therefore, the volume reduction requirement is equal to 1.1 inches over the area of all impervious surface. The amount of proposed impervious required to be treated is 45,709 ft². The Lincoln St Drainage area cannot be treated as it slopes steeply toward the frontage road and treatment here is infeasible. This untreated area makes up roughly 3% of the total site impervious.

The applicant is proposing the Stormwater Management Practices (SMPs) described below:

Drainage Area	Impervious required to be treated (ft²)	Proposed SMP	TP Removal Factor	Required Water Quality Volume (ft ³)	Water Quality Volume Provided (ft³)
Lincoln St	1,508	none	0	276	0
NURP Basin	44,201	NURP Pond	0.5	8,104	18,997
Totals:	45,709			8,380	18,997

Table 2.

Infiltration may not be used as a volume control practice because the practice would need to be placed in areas with less than three feet of separation from the bottom of the infiltration system to the seasonally saturated soils or the top of bedrock.

Geotechnical information from March 2020 and May 2024 has been submitted which indicates that seasonally high saturated soils are likely at an approximate elevation of 892 ft MSL. The bottom of an infiltration system would need to be at elevation 895 ft or above. This is infeasible because surrounding topography (including the low elevations on Lincoln St for driveway slope), the entire site would need to be raised significantly. Subsequently creating steep and unsafe driveway entrances.

Because the volume reduction standard cannot be met due to these site constraints, the project proposes the use of the stormwater management practices and their corresponding TP conversion factors listed in Table 2. The volume control standard has been met to the maximum extent practicable as shown in Table 2.

Water Quality: The total Water Quality Volume has been provided in aggregate.

Stormwater treatment on site must remove at least 80% of the average annual post development TSS per discharge location. The following TSS removal has been provided:

Discharge Point	TSS Removal Provided
East - Regional	84

Table 3.

The TSS removal standard is met at each discharge point as shown in Table 3.

<u>Discharges to Wetlands</u>: Stormwater from the proposed project is being discharged into an onsite wetland. The wetland is currently being utilized as a stormwater pond, which receives untreated stormwater from the parcel to the south. Because it is already being uses as stormwater treatment, bounce and inundation calculations were not required.

Landlocked Basins: The proposed drainage system does not outlet to a landlocked basin, therefore

this section does not apply.

<u>Low Floor Freeboard</u>: The proposed project is new development which includes buildings and habitable structures. Therefore, SMPs must be designed such that the lowest basement floor elevations are at least 2 feet above the 100-yr high water level and 1 foot above the emergency overflow. The lowest basement floor elevation proposed is 897.05 MSL. The applicable 100-year high water level is at 894.2 MSL and the applicable emergency overflow is at 894.2 MSL. The freeboard requirement is met.

Maintenance:

Access: Sufficient maintenance access has been provided on the plans for all stormwater management practices.

Easements: All required maintenance easements have been provided on the plans.

Maintenance Agreements: The proposed stormwater management practices will not be maintained as part of standard municipal public work activities. Therefore, a maintenance agreement that meets District standards will be required.

Soils and Erosion Control (Rule 4.0)

Rule 4.0 applies to the proposed project because it is a land disturbing activity that requires a permit under another District rule.

The proposed project drains to County Ditch 59-1. The soils affected by the project include Isanti, Lino and Zimmerman and have a soil erodibility factor of 0.15 or greater. Disturbed areas are not proposed to be stabilized within 24 hours, as required. The proposed erosion and sediment control plan includes construction entrance, inlet protection, riprap, and perimeter control. The erosion control plan does not meet District requirements because soils and soil stockpiles are not proposed to be stabilized within 24 hours of inactivity.

Wetlands (Rule 5.0)

Wetlands exist on site, but no impacts are proposed to the regulated wetland. The boundary and type application was reviewed and approved. Wetlands were delineated under PAN 19-128 and determined all but one wetland to be incidental. The Notice of Decision was issued on 05/01/2019. The applicant submitted a joint application form requesting an extension to an existing No Loss decision on 05/05/2024. The TEP agrees that the proposed project meets the requirements for an extension to the No Loss Decision under Rule 8420. The extended Notice of Decision was issued on 05/08/2024.

Floodplain (Rule 6.0)

Rule 6.0 applies to the proposed project because it includes land disturbing activities within or adjacent to the boundary of the 100-year flood elevation as mapped and modeled by the District.

The regulatory floodplain elevation is 891.2 ft MSL. The application proposes the placement of 53 cubic yards of fill within the floodplain. Compensatory storage is required. The proposed project provides 66 cubic yards of compensatory storage, which exceeds the required 1:1 ratio and is within the relevant reach.

The proposed project is subject to flood damage. Low floor elevations are proposed at elevation 897.05 ft MSL, which meets the minimum floor elevation of 2 foot above the 100-year flood profile.

The proposed fill within the floodplain is a structure. Information has been provided to show that the Structure can pass the 100-year flood without increasing the elevation of the 100-year flood profile or creating excessive velocities. See attached Figure 4: Floodplain Impacts.

Drainage, Bridges, Culverts, and Utility Crossings (Rule 7.0)

PAN # P-24-026 Project Name: ALLSTATE DISTRIBUTIONS COMMERCIAL BUILDING | 5

The proposed project does not include land disturbing activities which construct, improve, repair, or alter the hydraulic characteristics of a bridge profile control or culvert structure on a creek, public ditch, or major watercourse. The proposed project does not include land disturbing activities which involve a pipeline or utility crossing of a creek, public ditch, or major watercourse.

The proposed project does not include land disturbing activities which construct, improve, repair or alter the hydraulic characteristics of a conveyance system that extends across two or more parcels of record not under common ownership and has a drainage area of 200 acres or greater. Rule 7.0 does not apply.

Buffers (Rule 8.0)

The proposed project does not include a land disturbing activity on land adjacent or directly contributing to a Public Water, Additional Waters, High or Outstanding Ecological Value Waters, a Public Ditch, or Impaired Waters/waters exceeding state water quality standards. Rule 8.0 does not apply.

Variances (Rule 10.2)

The proposed project is not requesting a variance from the District's rules, regulations, and policies. Rule 10.2 does not apply.

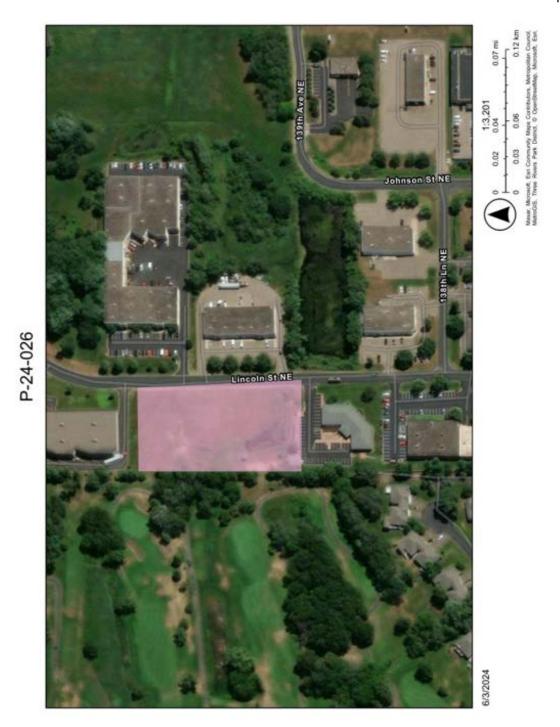


Figure 1: Project Location

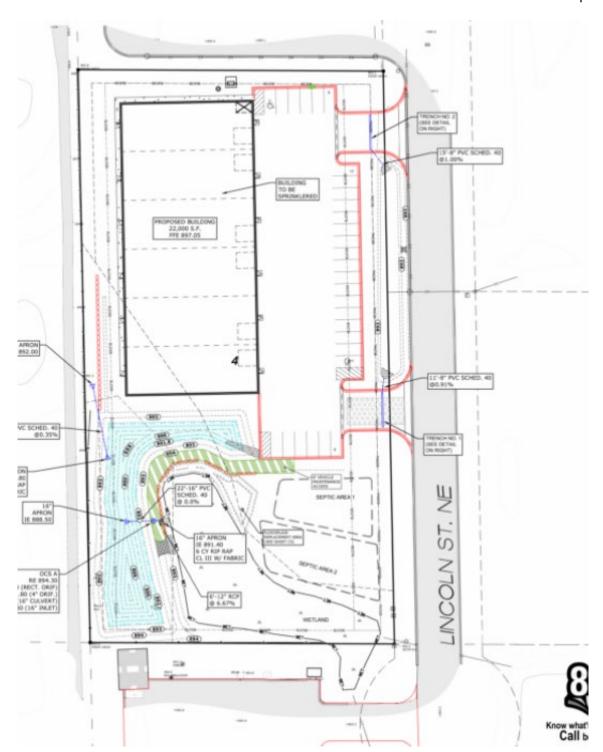


Figure 2: Site Plan

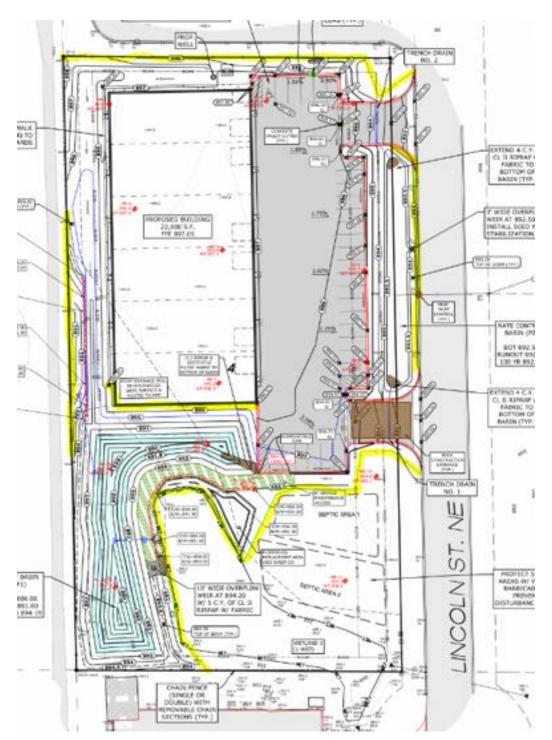


Figure 3: Erosion and Sediment Control Plan

PAN # P-24-026 Project Name: ALLSTATE DISTRIBUTIONS COMMERCIAL BUILDING | 9

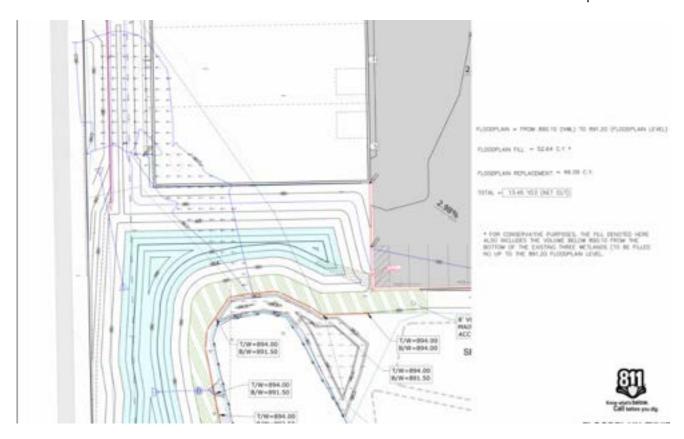


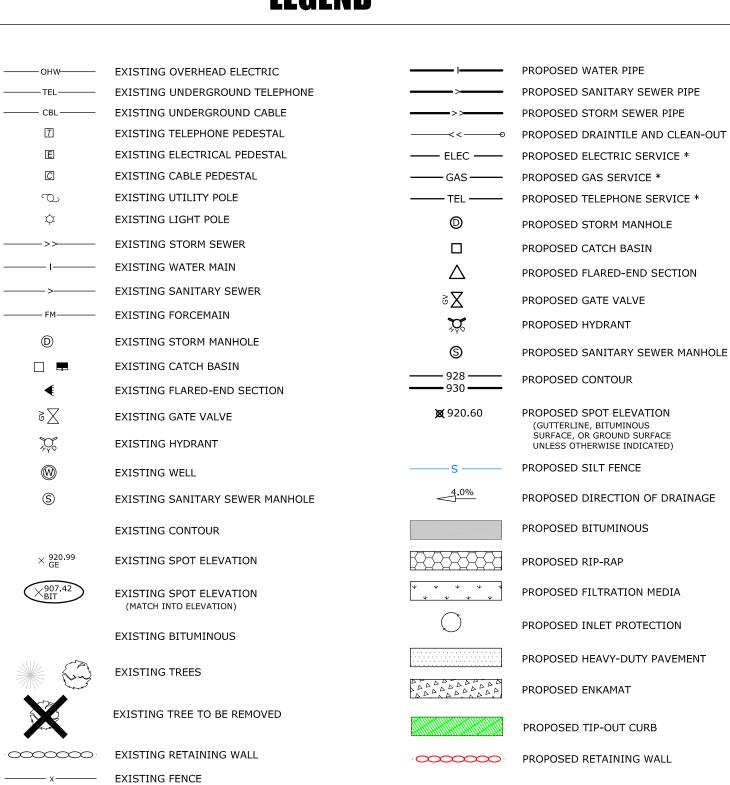
Figure 4: Floodplain Impact

ALLSTATE DISTRIBUTIONS COMMERCIAL BUILDING

TITLE SHEET, LEGEND, EXISTING CONDITIONS, & REMOVAL PLAN

HAM LAKE, MINNESOTA

LEGEND *



GENERAL NOTES

* NOT ALL SYMBOLS ARE APPLICABLE.

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF EXISTING UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UTILITIES AS NECESSARY TO AVOID DAMAGE TO THESE UTILITIES.

CALL "811" FOR EXISTING UTILITIES LOCATIONS PRIOR TO ANY EXCAVATIONS.

THE CONTRACTOR SHALL FIELD VERIFY SIZE, ELEVATION, AND LOCATION OF EXISTING SANITARY SEWER, STORM SEWER, AND WATER MAIN AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO THE START OF INSTALLATIONS.

INSTALLATIONS SHALL CONFORM TO THE CITY STANDARD SPECIFICATIONS AND DETAIL PLATES.

ALL UTILITIES THAT WILL BE OWNED AND MAINTAINED BY THE CITY AFTER CONSTRUCTION SHALL BE BUILT TO CITY

THE CONTRACTOR SHALL NOTIFY CITY PUBLIC WORKS DEPARTMENT A MINIMUM OF 24 HOURS PRIOR TO THE INTERRUPTION OF ANY SEWER OR WATER SERVICES TO EXISTING HOMES OR BUSINESSES.

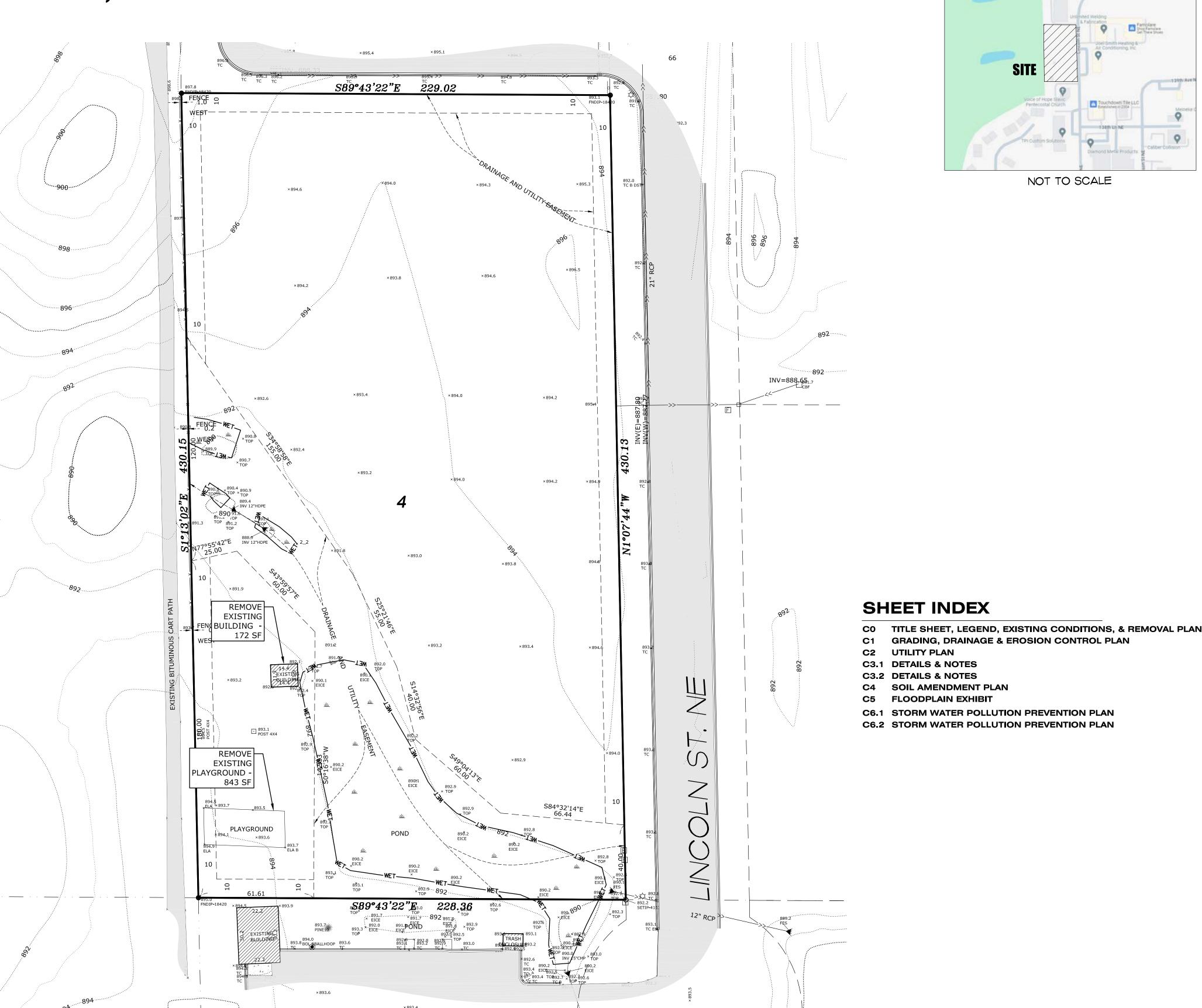
THE CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY PERMIT FROM THE CITY PRIOR TO ANY WORK.

STORAGE OF MATERIALS OR EQUIPMENT SHALL NOT BE ALLOWED ON PUBLIC STREETS OR WITHIN PUBLIC RIGHT-OF-WAY. NOTIFY CITY A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

ALL ELECTRIC, TELEPHONE, AND GAS EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY



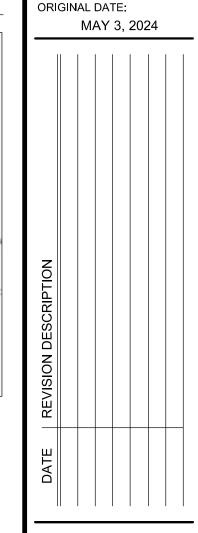
—— WET—— EXISTING WETLAND



VICINITY MAP



NOT TO SCALE



M.Q.A.

CHCKD BY:

M.Q.A.

Q.M.A.

24-2141

PROJ. NO.



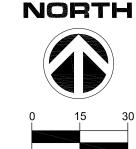
PREPARED FOR:

GLEN HARSTAD

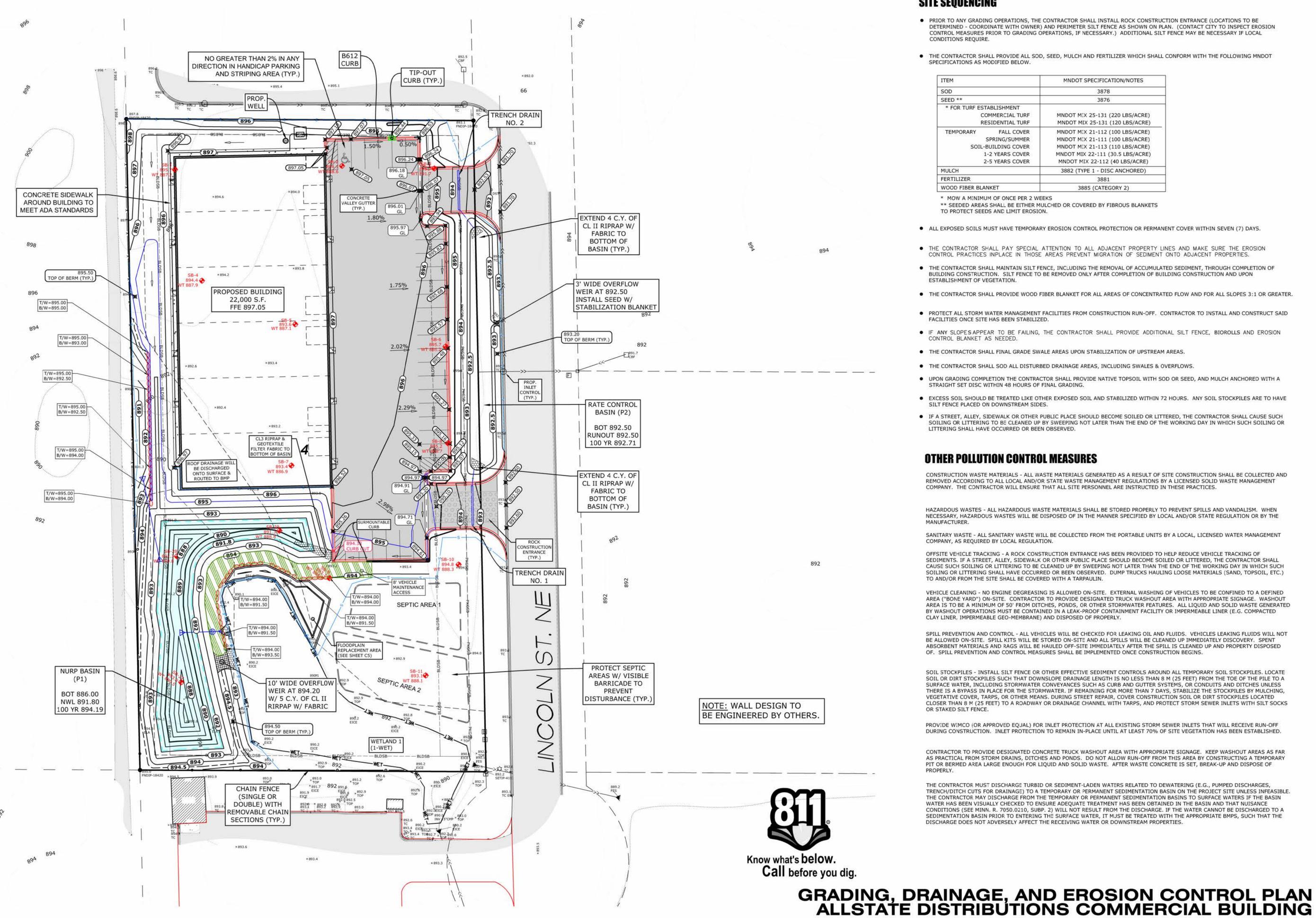


& ENGINEERING

LINO LAKES, MN 55014 PHONE: (651) 361-8210 FAX: (651) 361-8701



1 INCH = 30 FEET



SITE SEQUENCING

- PRIOR TO ANY GRADING OPERATIONS, THE CONTRACTOR SHALL INSTALL ROCK CONSTRUCTION ENTRANCE (LOCATIONS TO BE DETERMINED - COORDINATE WITH OWNER) AND PERIMETER SILT FENCE AS SHOWN ON PLAN. (CONTACT CITY TO INSPECT EROSION CONTROL MEASURES PRIOR TO GRADING OPERATIONS, IF NECESSARY.) ADDITIONAL SILT FENCE MAY BE NECESSARY IF LOCAL
- THE CONTRACTOR SHALL PROVIDE ALL SOD, SEED, MULCH AND FERTILIZER WHICH SHALL CONFORM WITH THE FOLLOWING MNDOT SPECIFICATIONS AS MODIFIED BELOW.

ITEM		MNDOT SPECIFICATION/NOTES
SOD		3878
SEED **		3876
* FOR TURF ESTABLISHMENT COMMERCIAL TURF RESIDENTIAL TURF		MNDOT MIX 25-131 (220 LBS/ACRE) MNDOT MIX 25-131 (120 LBS/ACRE)
TEMPORARY FALL COVER SPRING/SUMMER SOIL-BUILDING COVER 1-2 YEARS COVER 2-5 YEARS COVER		MNDOT MIX 21-112 (100 LBS/ACRE) MNDOT MIX 21-111 (100 LBS/ACRE) MNDOT MIX 21-113 (110 LBS/ACRE) MNDOT MIX 22-111 (30.5 LBS/ACRE) MNDOT MIX 22-112 (40 LBS/ACRE)
MULCH		3882 (TYPE 1 - DISC ANCHORED)
FERTILIZER		3881
WOOD FIBER BLANKET		3885 (CATEGORY 2)

- * MOW A MINIMUM OF ONCE PER 2 WEEKS
- ** SEEDED AREAS SHALL BE EITHER MULCHED OR COVERED BY FIBROUS BLANKETS TO PROTECT SEEDS AND LIMIT EROSION.
- ALL EXPOSED SOILS MUST HAVE TEMPORARY EROSION CONTROL PROTECTION OR PERMANENT COVER WITHIN SEVEN (7) DAYS.
- THE CONTRACTOR SHALL PAY SPECIAL ATTENTION TO ALL ADJACENT PROPERTY LINES AND MAKE SURE THE EROSION CONTROL PRACTICES INPLACE IN THOSE AREAS PREVENT MIGRATION OF SEDIMENT ONTO ADJACENT PROPERTIES.
- THE CONTRACTOR SHALL MAINTAIN SILT FENCE, INCLUDING THE REMOVAL OF ACCUMULATED SEDIMENT, THROUGH COMPLETION OF BUILDING CONSTRUCTION. SILT FENCE TO BE REMOVED ONLY AFTER COMPLETION OF BUILDING CONSTRUCTION AND UPON ESTABLISHMENT OF VEGETATION.
- THE CONTRACTOR SHALL PROVIDE WOOD FIBER BLANKET FOR ALL AREAS OF CONCENTRATED FLOW AND FOR ALL SLOPES 3:1 OR GREATER.
- PROTECT ALL STORM WATER MANAGEMENT FACILITIES FROM CONSTRUCTION RUN-OFF. CONTRACTOR TO INSTALL AND CONSTRUCT SAID FACILITIES ONCE SITE HAS BEEN STABILIZED.
- . IF ANY SLOPES APPEAR TO BE FAILING, THE CONTRACTOR SHALL PROVIDE ADDITIONAL SILT FENCE, BIOROLLS AND EROSION CONTROL BLANKET AS NEEDED.
- THE CONTRACTOR SHALL FINAL GRADE SWALE AREAS UPON STABILIZATION OF UPSTREAM AREAS.
- THE CONTRACTOR SHALL SOD ALL DISTURBED DRAINAGE AREAS, INCLUDING SWALES & OVERFLOWS.
- UPON GRADING COMPLETION THE CONTRACTOR SHALL PROVIDE NATIVE TOPSOIL WITH SOD OR SEED, AND MULCH ANCHORED WITH A STRAIGHT SET DISC WITHIN 48 HOURS OF FINAL GRADING.
- EXCESS SOIL SHOULD BE TREATED LIKE OTHER EXPOSED SOIL AND STABILIZED WITHIN 72 HOURS. ANY SOIL STOCKPILES ARE TO HAVE SILT FENCE PLACED ON DOWNSTREAM SIDES.
- IF A STREET, ALLEY, SIDEWALK OR OTHER PUBLIC PLACE SHOULD BECOME SOILED OR LITTERED, THE CONTRACTOR SHALL CAUSE SUCH SOILING OR LITTERING TO BE CLEANED UP BY SWEEPING NOT LATER THAN THE END OF THE WORKING DAY IN WHICH SUCH SOILING OR

OTHER POLLUTION CONTROL MEASURES

CONSTRUCTION WASTE MATERIALS - ALL WASTE MATERIALS GENERATED AS A RESULT OF SITE CONSTRUCTION SHALL BE COLLECTED AND REMOVED ACCORDING TO ALL LOCAL AND/OR STATE WASTE MANAGEMENT REGULATIONS BY A LICENSED SOLID WASTE MANAGEMENT COMPANY. THE CONTRACTOR WILL ENSURE THAT ALL SITE PERSONNEL ARE INSTRUCTED IN THESE PRACTICES.

HAZARDOUS WASTES - ALL HAZARDOUS WASTE MATERIALS SHALL BE STORED PROPERLY TO PREVENT SPILLS AND VANDALISM. WHEN NECESSARY, HAZARDOUS WASTES WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL AND/OR STATE REGULATION OR BY THE

SANITARY WASTE - ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS BY A LOCAL, LICENSED WATER MANAGEMENT COMPANY, AS REQUIRED BY LOCAL REGULATION.

OFFSITE VEHICLE TRACKING - A ROCK CONSTRUCTION ENTRANCE HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS, IF A STREET, ALLEY, SIDEWALK OR OTHER PUBLIC PLACE SHOULD BECOME SOILED OR LITTERED, THE CONTRACTOR SHALL CAUSE SUCH SOILING OR LITTERING TO BE CLEANED UP BY SWEEPING NOT LATER THAN THE END OF THE WORKING DAY IN WHICH SUCH SOILING OR LITTERING SHALL HAVE OCCURRED OR BEEN OBSERVED. DUMP TRUCKS HAULING LOOSE MATERIALS (SAND, TOPSOIL, ETC.) TO AND/OR FROM THE SITE SHALL BE COVERED WITH A TARPAULIN.

VEHICLE CLEANING - NO ENGINE DEGREASING IS ALLOWED ON-SITE. EXTERNAL WASHING OF VEHICLES TO BE CONFINED TO A DEFINED AREA ("BONE YARD") ON-SITE. CONTRACTOR TO PROVIDE DESIGNATED TRUCK WASHOUT AREA WITH APPROPRIATE SIGNAGE. WASHOUT AREA IS TO BE A MINIMUM OF 50' FROM DITCHES, PONDS, OR OTHER STORMWATER FEATURES. ALL LIQUID AND SOLID WASTE GENERATED BY WASHOUT OPERATIONS MUST BE CONTAINED IN A LEAK-PROOF CONTAINMENT FACILITY OR IMPERMEABLE LINER (E.G. COMPACTED CLAY LINER, IMPERMEABLE GEO-MEMBRANE) AND DISPOSED OF PROPERLY.

SPILL PREVENTION AND CONTROL - ALL VEHICLES WILL BE CHECKED FOR LEAKING OIL AND FLUIDS. VEHICLES LEAKING FLUIDS WILL NOT BE ALLOWED ON-SITE. SPILL KITS WILL BE STORED ON-SITE AND ALL SPILLS WILL BE CLEANED UP IMMEDIATELY DISCOVERY. SPENT ABSORBENT MATERIALS AND RAGS WILL BE HAULED OFF-SITE IMMEDIATELY AFTER THE SPILL IS CLEANED UP AND PROPERTY DISPOSED OF. SPILL PREVENTION AND CONTROL MEASURES SHALL BE IMPLEMENTED ONCE CONSTRUCTION BEGINS.

SOIL STOCKPILES - INSTALL SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS AROUND ALL TEMPORARY SOIL STOCKPILES. LOCATE SOIL OR DIRT STOCKPILES SUCH THAT DOWNSLOPE DRAINAGE LENGTH IS NO LESS THAN 8 M (25 FEET) FROM THE TOE OF THE PILE TO A SURFACE WATER, INCLUDING STORMWATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS, OR CONDUITS AND DITCHES UNLESS THERE IS A BYPASS IN PLACE FOR THE STORMWATER. IF REMAINING FOR MORE THAN 7 DAYS, STABILIZE THE STOCKPILES BY MULCHING, VEGETATIVE COVER, TARPS, OR OTHER MEANS. DURING STREET REPAIR, COVER CONSTRUCTION SOIL OR DIRT STOCKPILES LOCATED CLOSER THAN 8 M (25 FEET) TO A ROADWAY OR DRAINAGE CHANNEL WITH TARPS, AND PROTECT STORM SEWER INLETS WITH SILT SOCKS

PROVIDE WIMCO (OR APPROVED EQUAL) FOR INLET PROTECTION AT ALL EXISTING STORM SEWER INLETS THAT WILL RECEIVE RUN-OFF DURING CONSTRUCTION. INLET PROTECTION TO REMAIN IN-PLACE UNTIL AT LEAST 70% OF SITE VEGETATION HAS BEEN ESTABLISHED.

CONTRACTOR TO PROVIDE DESIGNATED CONCRETE TRUCK WASHOUT AREA WITH APPROPRIATE SIGNAGE. KEEP WASHOUT AREAS AS FAR AS PRACTICAL FROM STORM DRAINS, DITCHES AND PONDS. DO NOT ALLOW RUN-OFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA LARGE ENOUGH FOR LIQUID AND SOLID WASTE. AFTER WASTE CONCRETE IS SET, BREAK-UP AND DISPOSE OF

TRENCH/DITCH CUTS FOR DRAINAGE) TO A TEMPORARY OR PERMANENT SEDIMENTATION BASIN ON THE PROJECT SITE UNLESS INFEASIBLE. THE CONTRACTOR MAY DISCHARGE FROM THE TEMPORARY OR PERMANENT SEDIMENTATION BASINS TO SURFACE WATERS IF THE BASIN WATER HAS BEEN VISUALLY CHECKED TO ENSURE ADEQUATE TREATMENT HAS BEEN OBTAINED IN THE BASIN AND THAT NUISANCE CONDITIONS (SEE MINN. R. 7050.0210, SUBP. 2) WILL NOT RESULT FROM THE DISCHARGE. IF THE WATER CANNOT BE DISCHARGED TO A SEDIMENTATION BASIN PRIOR TO ENTERING THE SURFACE WATER, IT MUST BE TREATED WITH THE APPROPRIATE BMPS, SUCH THAT THE DISCHARGE DOES NOT ADVERSELY AFFECT THE RECEIVING WATER OR DOWNSTREAM PROPERTIES.

DRAWN BY: DESIGN BY M.Q.A. Q.M.A. CHCKD BY: PROJ. NO. M.Q.A. 24-2141

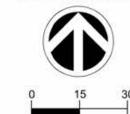
ORIGINAL DATE: MAY 3, 2024

PREPARED FOR: **GLEN HARSTAD**

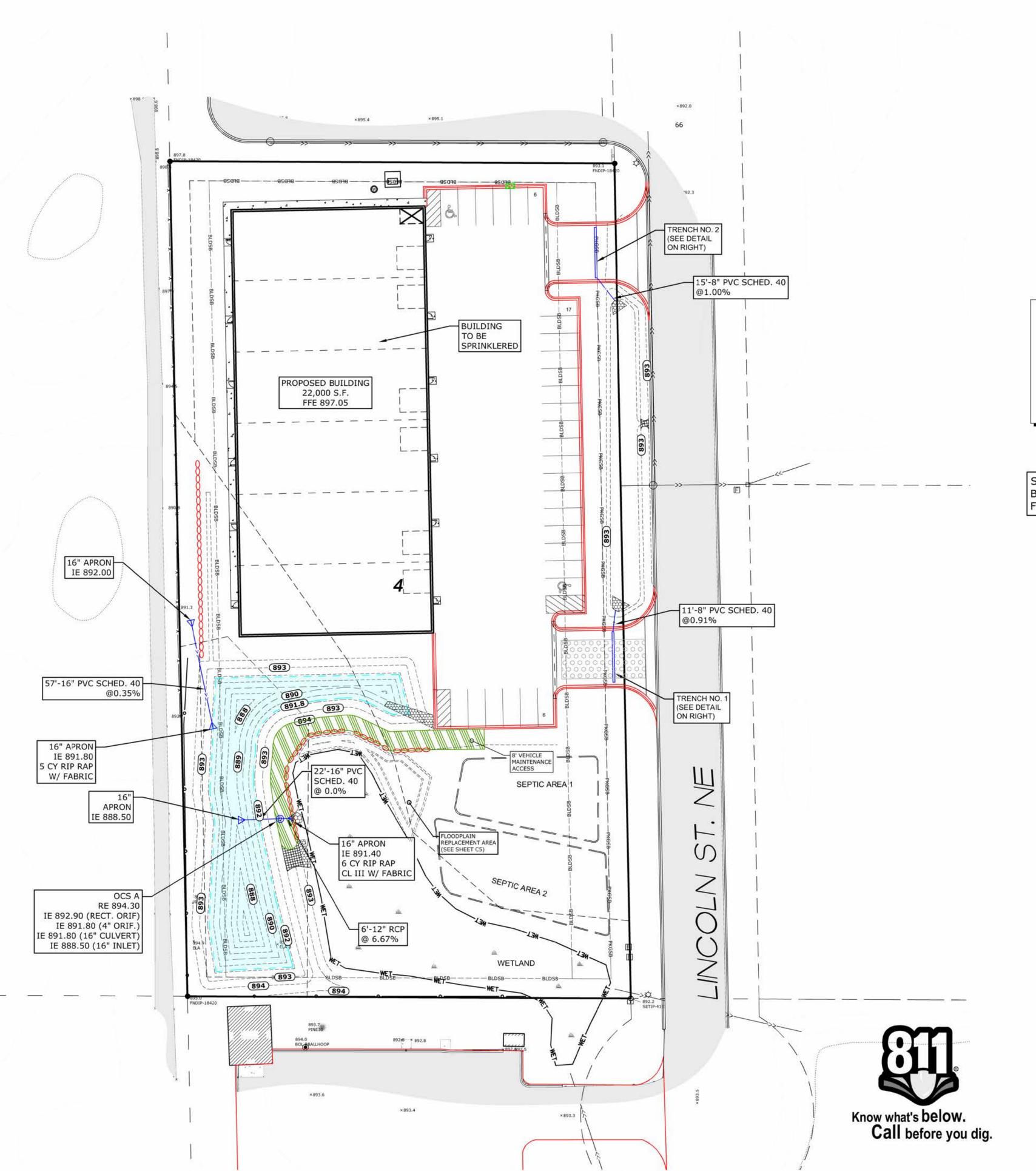


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FAX: (651) 361-8701 NORTH



1 INCH = 30 FEET



STORM SEWER NOTES

FIELD VERIFY SIZE, ELEVATION, AND LOCATION OF EXISTING STORM SEWER AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY INSTALLATIONS.

STORM SEWER PIPE SHALL BE PVC SCHEDULE 40 MEETING ASTM D1785, D2665, F891, OR F1488 WITH APPROVED FITTINGS (SEE TABLE 701.2). SOLVENT WELDED JOINTS MUST USE ASTM F656 PURPLE PRIMER AND ASTM D2564 CEMENT. THE SEWER MUST BE INSTALLED BY OPEN-TRENCH ON A CONTINUOUS GRANULAR BED PER SECTION 314.4.1. ASTM D2241 PVC IS NOT AN APPROVED MATERIAL FOR BUILDING SEWERS.

STORM SEWER LENGTHS INCLUDE THE LAYING LENGTH OF THE FLARED-END SECTION. LAYING LENGTH OF APRON TO BE DEDUCTED FROM PAYMENT LENGTH OF PIPE.

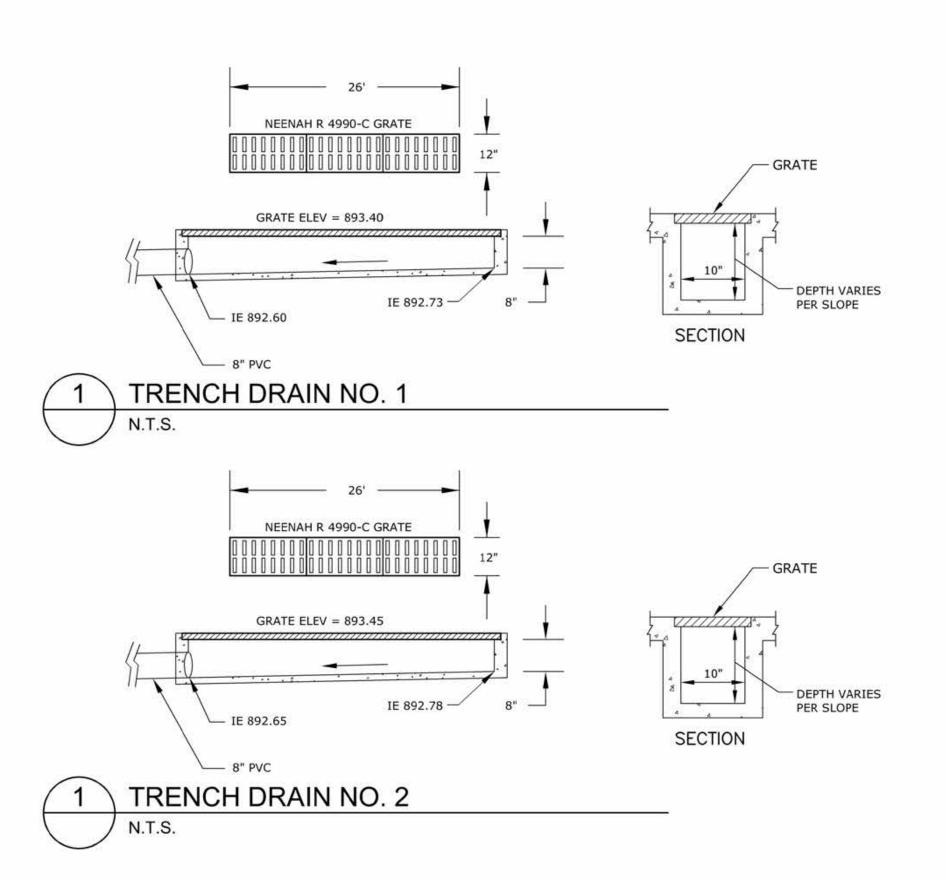
ALL PORTIONS OF THE STORM SEWER SYSTEM LOCATED WITHIN 10 FEET OF THE BUILDING OR WATER SERVICE LINE MUST BE TESTED IN ACCORDANCE WITH MINNESOTA RULES, PART 4715.2820.

STORM SEWER PIPES TO BE JOINED TO THE CATCH BASIN MANHOLES W/ APPROVED RESILIENT RUBBER JOINTS TO MAKE THEM GASTIGHT OR WATERTIGHT. CEMENT MORTAR JOINTS ARE PERMITTED ONLY FOR REPAIRS AND CONNECTIONS OF EXISTING LINES CONSTRUCTED WITH SUCH JOINTS.

ALL PERMITS, INCLUDING BUT NOT LIMITED TO PERMITS FROM CITY OF HAM LAKE, COON CREEK WATERSHED, AND THE MINNESOTA DEPARTMENT OF LABOR AND INDUSTRY, SHALL BE OBTAINED PRIOR TO ORDERING OF MATERIAL AND STARTING OF CONSTRUCTION. NO INSTALLATION OF UTILITIES SHALL BE PERMITTED UNTIL ALL APPLICABLE PERMITS ARE RECEIVED BY THE CONTRACTOR.

INSTALLATION OF UTILITIES SHALL BE CONSTRUCTED TO MINNESOTA DEPARTMENT OF LABOR AND INDUSTRY STANDARDS AND CITY STANDARDS AS IDENTIFIED IN THE PUBLIC WORKS/ENGINEERING STANDARDS.

SEPTIC SYSTEM & CONNECTION TO WELL DESIGN BY OTHERS. SEE DESIGNER'S DESIGN AND NOTES FOR ADDITIONAL DETAILS.



UTILITY PLAN
ALLSTATE DISTRIBUTIONS COMMERCIAL BUILDING

DRAWN BY: DESIGN BY: M.Q.A. Q.M.A.
CHCKD BY: PROJ. NO. M.Q.A. 24-2141
ORIGINAL DATE: MAY 3, 2024

or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

CASEM M. ABUGHAZLEH

OASEM M. ABUGHAZLEH

OASEM M. ABUGHAZLEH

COMMERCIAL BUILDING HAM LAKE, MINNESOTA

PREPARED FOR: GLEN HARSTAD



& ENGINEERING

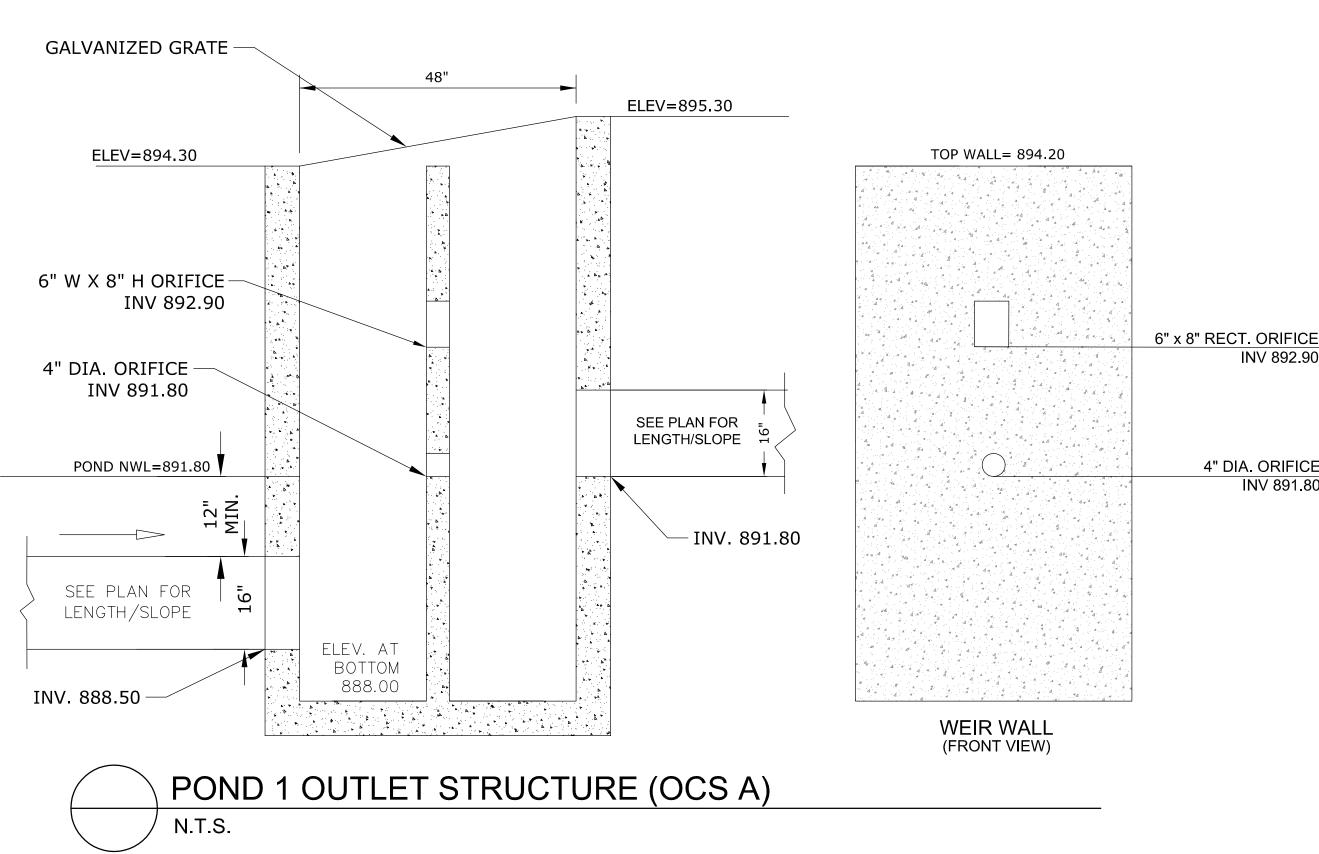
PLOWE
ENGINEERING. INC.

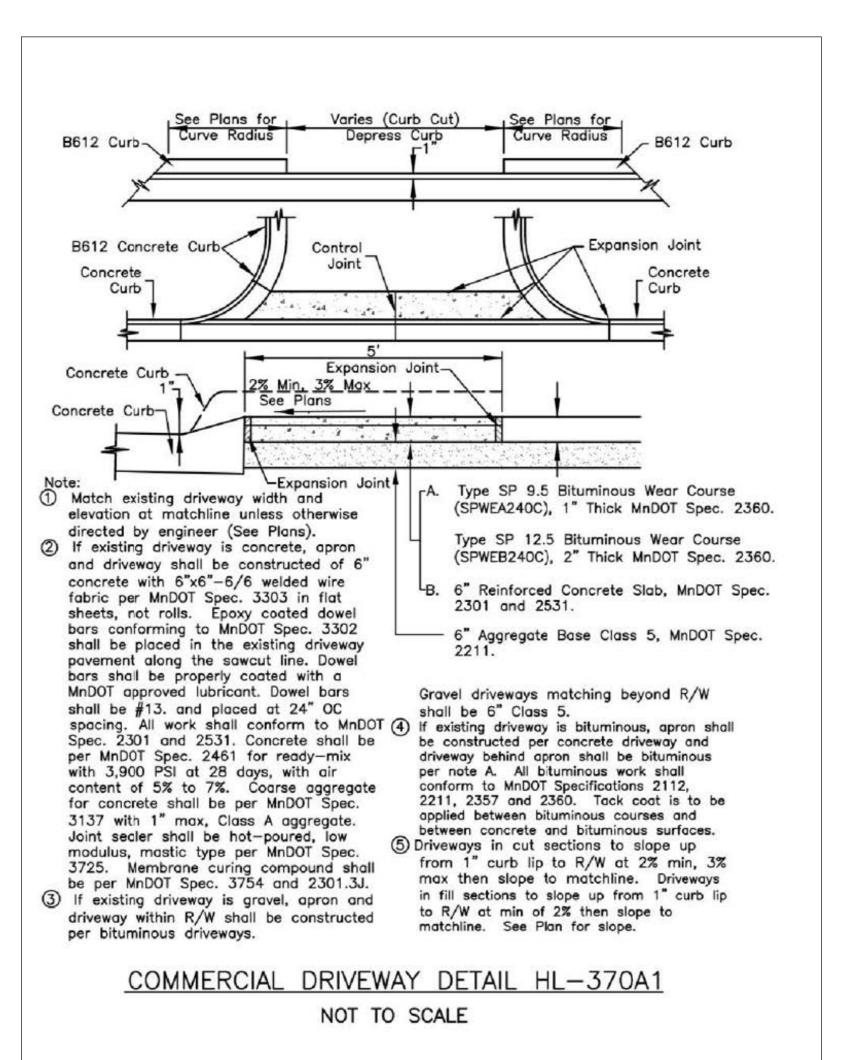
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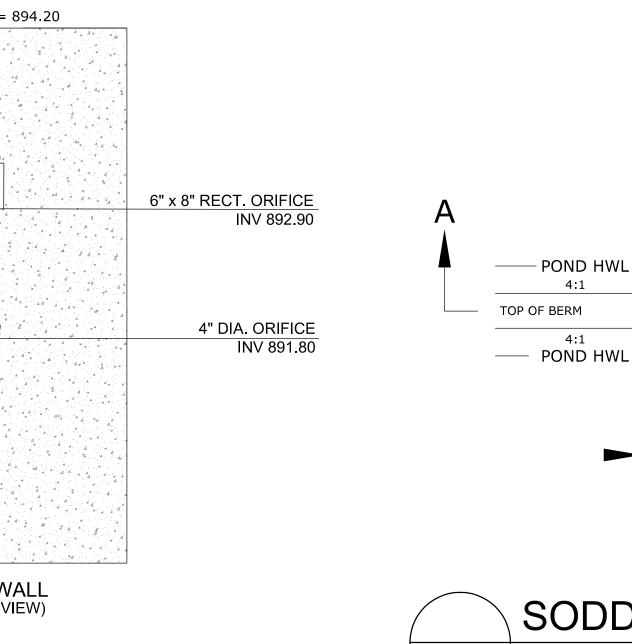
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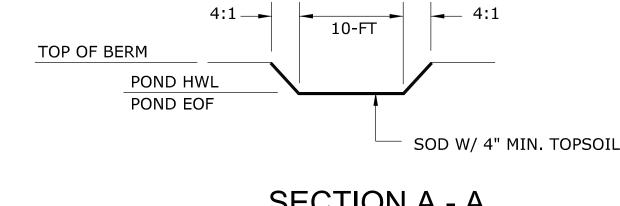
1 INCH = 30 FEET

C2

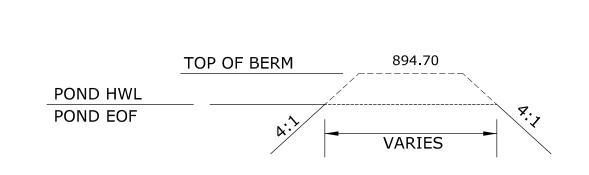








SECTION A - A



SECTION B - B

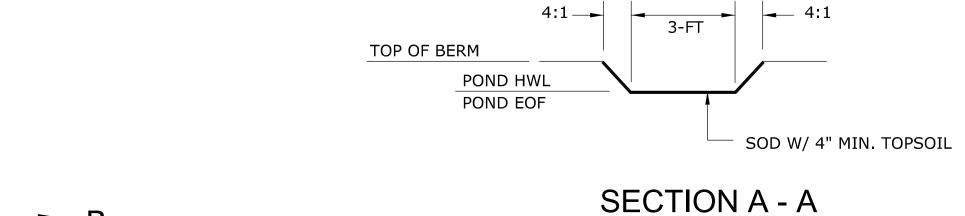


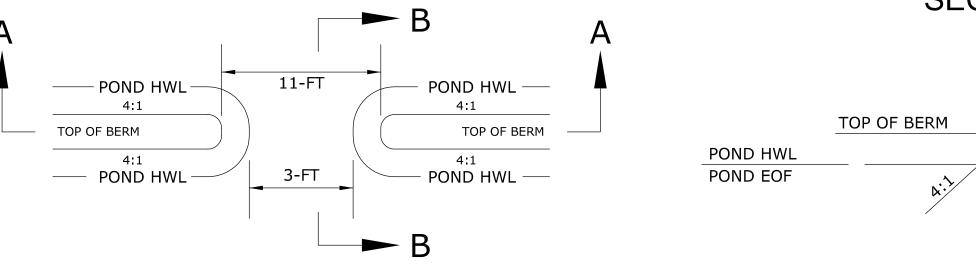
PLAN VIEW

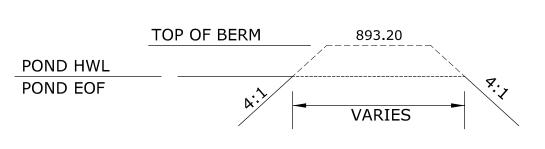
PLAN VIEW

POND HWL

POND HWL —

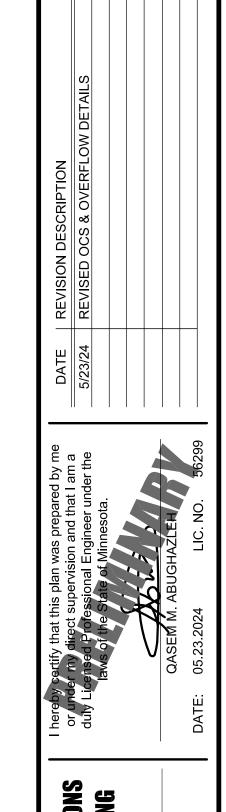






SECTION B - B





M.Q.A.

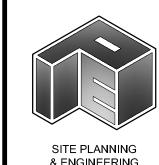
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ORIGINAL DATE:

MAY 3, 2024

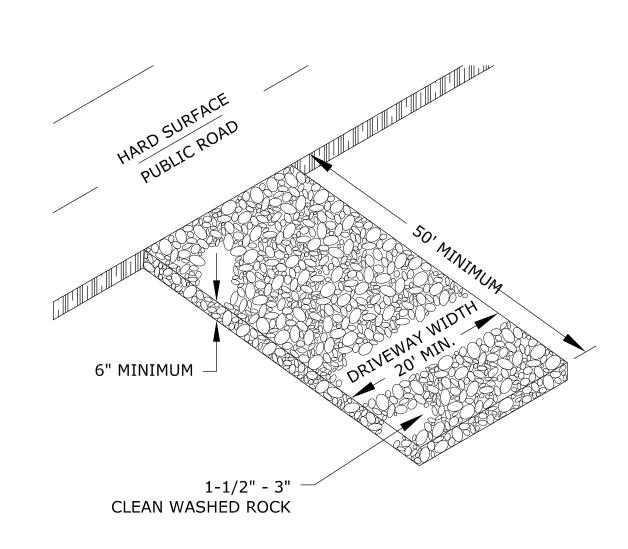
PROJ. NO. 24-2141

PREPARED FOR: **GLEN HARSTAD**



& ENGINEERING

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ROCK CONSTRUCTION ENTRANCE

NOT TO SCALE

SCORE WITH STIFF-BRISTLED BROOM PERPENDICULAR TO TRAFFIC MEMBRANE CURING COMPOUND - 4" CONCRETE WALK (3A32) 4" COMPACTED AGGREGATE BASE APPROVED GRANULAR SUBGRADE

1) USE EXPANSION JOINT WHERE NEW CONCRETE MEETS EXISTING CONCRETE OR STRUCTURE

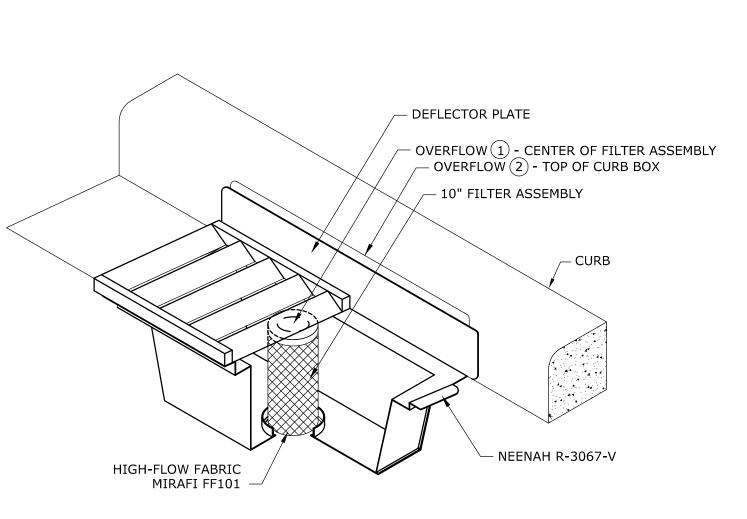
2) CONTROL JOINTS SHALL BE CUT WITH A JOINTER HAVING A RADIUS OF 1/4" AND SPACED @ 5'-0" O.C. MAX. U.N.O.

3) EXPANSION JOINTS SHALL BE SPACED AT 20'-0" O.C. MAX. AND SHALL CONSIST OF A 1/2" PRE-FORMED JOINT FILLER.

4) ANTI-SPALLING COMPOUND SHALL BE APPLIED TO CONCRETE SURFACES.

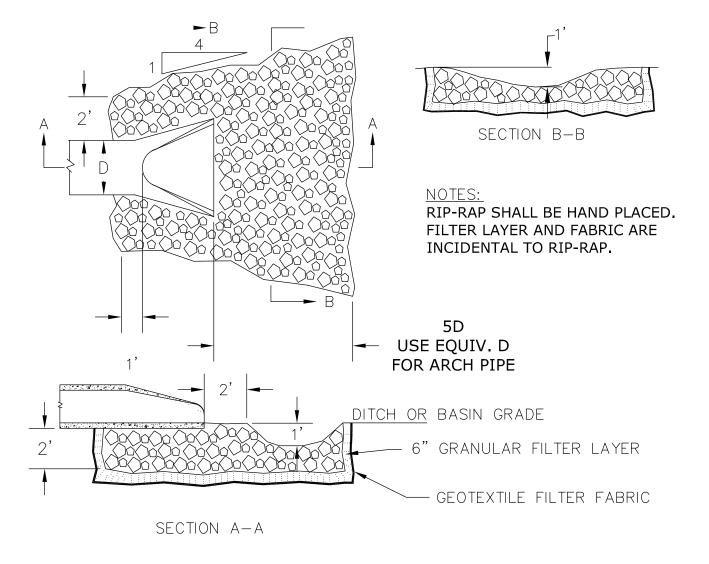
TYPICAL CONCRETE SIDEWALK

NOT TO SCALE



WIMCO INLET PROTECTION

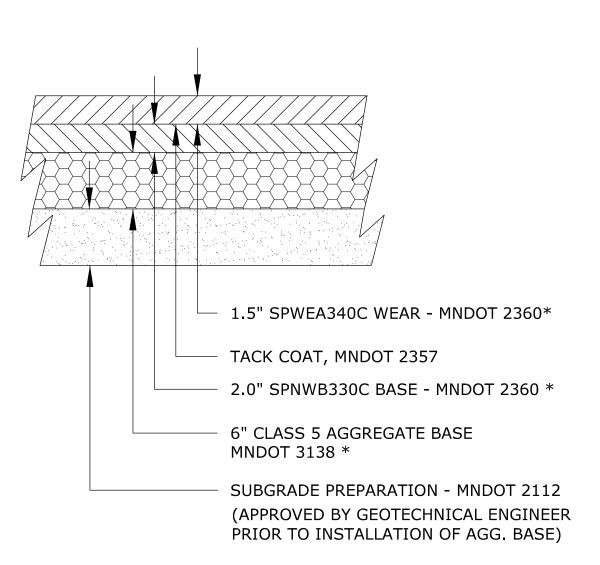
NOT TO SCALE



	RIP-RAP QUANTITIES (C.Y.)					
PIPE DI	A. RIP-RAP	PIPE DIA.	RIP-RAP	PIPE DIA.	RIP-RAP	
12" 15" 18" 21"	4 5 6 8	24" 27" 30" 36"	10 12 14 19	42" 48" 54" 60"	23 29 34 39	

RIP-RAP AT OUTLETS

NOT TO SCALE

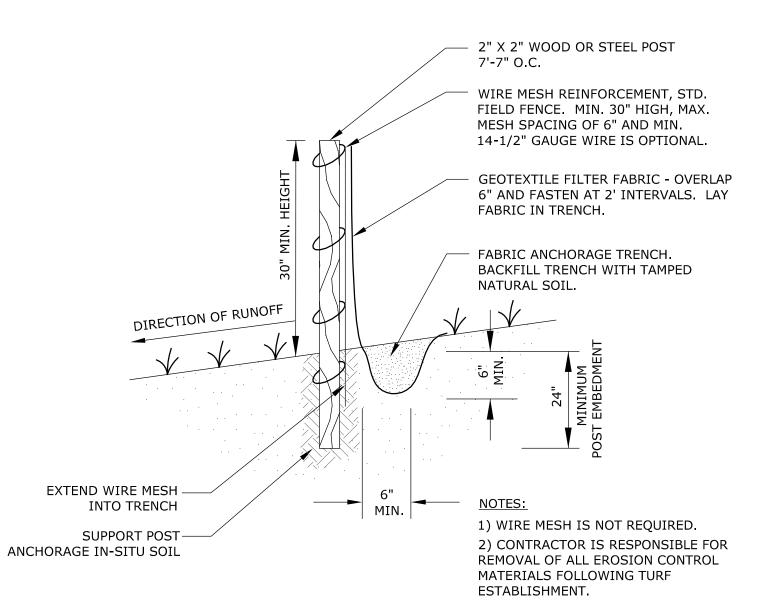


PAVING SHALL CONFORM TO THE LATEST EDITION OF MNDOT'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND THE CITY'S STANDARDS FOR STREET AND UTILITY CONSTRUCTION

* PAVING SECTION SHALL BE REVIEWED AND APPROVED BY HAUGO GEOTECHNICAL SERVICES OR ANOTHER GEOTECHNICAL ENGINEER PRIOR TO ANY INSTALLATIONS.

BITUMINOUS PAVEMENT

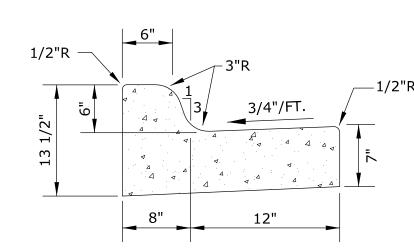
NOT TO SCALE



SILT FENCE

NOT TO SCALE

PROVIDE 4" CLASS 5 UNDER CURB (TYP)

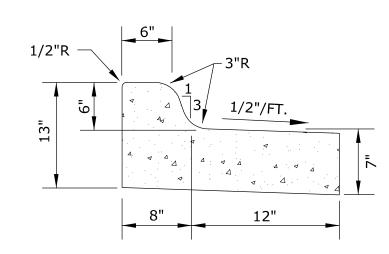


NOTE: FOR MECHANICALLY LAID CURB, SHOE MAY BE TILTED.

B612 CONCRETE CURB & GUTTER

NOT TO SCALE

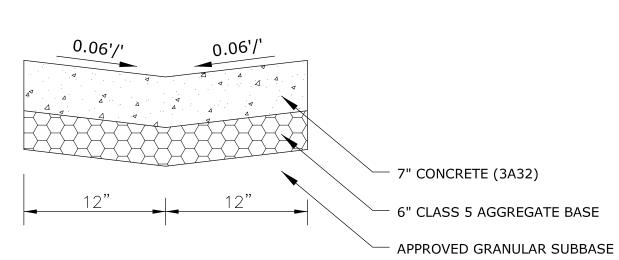
PROVIDE 4" CLASS 5 UNDER CURB (TYP)



NOTE: FOR MECHANICALLY LAID CURB, SHOE MAY BE TILTED.

B612 CONCRETE CURB & GUTTER (TIP-OUT)

NOT TO SCALE



CONCRETE GUTTER SWALE

NOT TO SCALE

ORIGINAL DATE: MAY 3, 2024

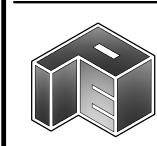
M.Q.A.

CHCKD BY:

Q.M.A.

PROJ. NO. 24-2141

PREPARED FOR: **GLEN HARSTAD**



SITE PLANNING & ENGINEERING

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LEGEND

PROPOSED SOIL AMENDMENT AREAS

SOIL AMENDMENT AREAS (DISTURBED AREAS ONLY)

- 1. ON-SITE TOPSOIL TO BE STOCKPILE
- 2. AFTER GRADING, LEAVE AMENDMENT AREAS SUBCUT 8"
- 3. ALLEVIATE COMPACTED SOILS (PLOW OR TILL) TO A MIN. DEPTH OF 2"
- 4. APPLY 8" OF STOCKPILED TOPSOIL
- APPLY 2.5" COMPOST MEETING:
- 5.1. 8-13% SOIL ORGANIC MATTER
- 5.2. PH SUITABLE FOR TURF SEEDING 5.3. NOTE: RETAIN RECORDS & RECEIPTS FOR
- COMPOST DELIVERED TO SITE FOR RCWD INSPECTIONS
- 6. ROTOTILL COMPOST INTO TOPSOIL TO A MIN. DEPTH OF 8" BY USING A PRIMARY TILLING OPERATION SUCH AS A CHISEL PLOW, RIPPER OR SUBSOILER

DRAWN BY: M.Q.A. Q.M.A. CHCKD BY: PROJ. NO. M.Q.A. 24-2141

ORIGINAL DATE:

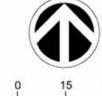
MAY 3, 2024

PREPARED FOR: GLEN HARSTAD



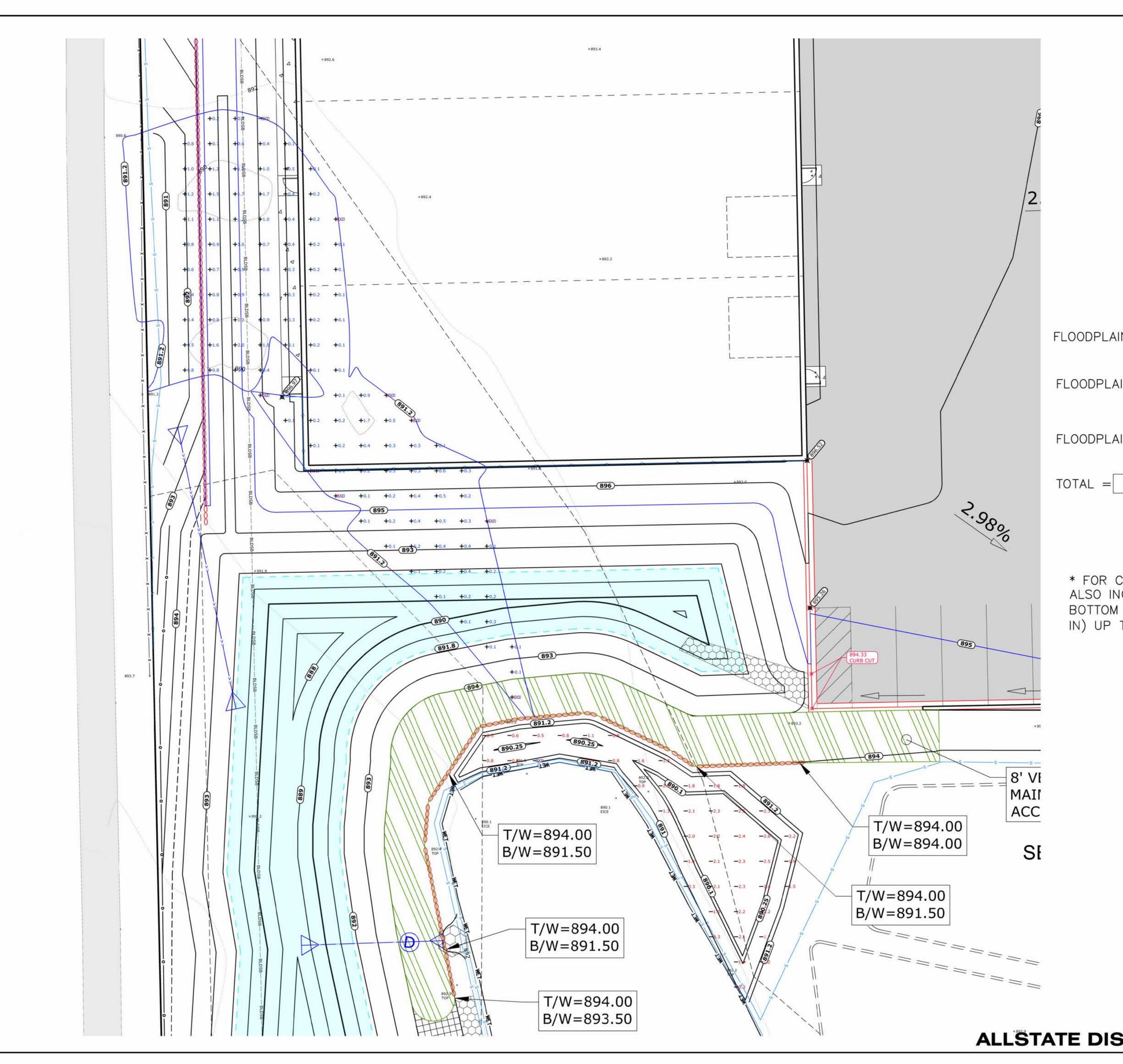
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NORTH



1 INCH = 30 FEET

SOIL AMENDMENT PLAN ALLSTATE DISTRIBUTIONS COMMERCIAL BUILDING



FLOODPLAIN = FROM 890.10 (NWL) TO 891.20 (FLOODPLAIN LEVEL)

FLOODPLAIN FILL = 52.64 C.Y *

FLOODPLAIN REPLACEMENT = 66.09 C.Y.

TOTAL = 13.45 YD3 (NET CUT)

* FOR CONSERVATIVE PURPOSES, THE FILL DENOTED HERE ALSO INCLUDES THE VOLUME BELOW 890.10 FROM THE BOTTOM OF THE EXISTING THREE WETLANDS (TO BE FILLED IN) UP TO THE 891.20 FLOODPLAIN LEVEL.



FLOODPLAIN EXHIBIT ALLSTATE DISTRIBUTIONS COMMERCIAL BUILDING

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CHCKD BY: PROJ. NO. M.Q.A. 24-2141
ORIGINAL DATE: MAY 3, 2024

5/23/24 REVISED FLOODPLAIN REPLACEMENT AREA



ALLSTATE DISTRIBUTIONS COMMERCIAL BUILDING HAM LAKE, MINNESOTA

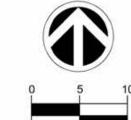
PREPARED FOR:
GLEN HARSTAD



PLOWE ENGINEERING, INC.

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0 5 10 1 INCH = 10 FEET

C5

- 4.2 PERMITTEES MUST SUBMIT A NOT WITHIN 30 DAYS AFTER ALL TERMINATION CONDITIONS LISTED IN SECTION 13 ARE
- 4.3 PERMITTEES MUST SUBMIT A NOT WITHIN 30 DAYS AFTER SELLING OR OTHERWISE LEGALLY TRANSFERRING THE ENTIRE SITE, INCLUDING PERMIT RESPONSIBILITY FOR ROADS (E.G., STREET SWEEPING) AND STORMWATER INFRASTRUCTURE FINAL CLEAN OUT, OR TRANSFERRING PORTIONS OF A SITE TO ANOTHER PARTY. THE PERMITTEES' COVERAGE UNDER THIS
- PERMIT TERMINATES AT MIDNIGHT ON THE SUBMISSION DATE OF THE NOT. [MINN. R. 7090] 4.4 PERMITTEES MAY TERMINATE PERMIT COVERAGE PRIOR TO COMPLETION OF ALL CONSTRUCTION ACTIVITY IF THEY MEET ALL OF THE FOLLOWING CONDITIONS:
- A. CONSTRUCTION ACTIVITY HAS CEASED FOR AT LEAST 90 DAYS; AND
- B. AT LEAST 90 PERCENT (BY AREA) OF ALL ORIGINALLY PROPOSED CONSTRUCTION ACTIVITY HAS BEEN COMPLETED AND PERMANENT COVER HAS BEEN ESTABLISHED ON THOSE AREAS; AND
- C. ON AREAS WHERE CONSTRUCTION ACTIVITY IS NOT COMPLETE, PERMANENT COVER HAS BEEN ESTABLISHED; AND D. THE SITE COMPLIES WITH ITEM 13.3 THROUGH 13.7.
- AFTER PERMIT COVERAGE IS TERMINATED UNDER THIS ITEM. ANY SUBSEQUENT DEVELOPMENT ON THE REMAINING PORTIONS OF THE SITE WILL REQUIRE PERMIT COVERAGE IF THE SUBSEQUENT DEVELOPMENT ITSELF OR AS PART OF THE REMAINING COMMON PLAN OF DEVELOPMENT OR SALE WILL RESULT IN LAND DISTURBING ACTIVITIES OF ONE (1) OR MORE ACRES IN SIZE. [MINN. R. 7090]
- 4.5 PERMITTEES MAY TERMINATE COVERAGE UPON MPCA APPROVAL AFTER SUBMITTING INFORMATION DOCUMENTING THE OWNER CANCELED THE PROJECT. [MINN. R. 7090]

6.1 SWPPP AMENDMENTS. [MINN. R. 7090]

6.2 ONE OF THE INDIVIDUALS DESCRIBED IN ITEM 21.2.A OR ITEM 21.2.B OR ANOTHER QUALIFIED INDIVIDUAL MUST COMPLETE ALL SWPPP CHANGES. CHANGES INVOLVING THE USE OF A LESS STRINGENT BMP MUST INCLUDE A JUSTIFICATION DESCRIBING HOW THE REPLACEMENT BMP IS EFFECTIVE FOR THE SITE CHARACTERISTICS. [MINN. R. 7090] 6.3 PERMITTEES MUST AMEND THE SWPPP TO INCLUDE ADDITIONAL OR MODIFIED BMPS AS NECESSARY TO CORRECT PROBLEMS IDENTIFIED OR ADDRESS SITUATIONS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE, WEATHER OR SEASONAL CONDITIONS HAVING A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS

TO SURFACE WATERS OR GROUNDWATER. [MINN. R. 7090] 6.4 PERMITTEES MUST AMEND THE SWPPP TO INCLUDE ADDITIONAL OR MODIFIED BMPS AS NECESSARY TO CORRECT PROBLEMS IDENTIFIED OR ADDRESS SITUATIONS WHENEVER INSPECTIONS OR INVESTIGATIONS BY THE SITE OWNER OR OPERATOR, USEPA OR MPCA OFFICIALS INDICATE THE SWPPP IS NOT EFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER OR THE DISCHARGES ARE CAUSING WATER QUALITY STANDARD EXCEEDANCES (E.G., NUISANCE CONDITIONS AS DEFINED IN MINN, R, 7050,0210, SUBP. 2) OR THE SWPPP IS NOT CONSISTENT WITH THE OBJECTIVES OF A USEPA APPROVED TMDL. [MINN. R. 7050.0210]

7.1 BMP SELECTION AND INSTALLATION. [MINN. R. 7090]

7.2 PERMITTEES MUST SELECT, INSTALL, AND MAINTAIN THE BMPS IDENTIFIED IN THE SWPPP AND IN THIS PERMIT IN AN APPROPRIATE AND FUNCTIONAL MANNER AND IN ACCORDANCE WITH RELEVANT MANUFACTURER SPECIFICATIONS AND ACCEPTED ENGINEERING PRACTICES. [MINN. R. 7090]

8.1 EROSION PREVENTION PRACTICES. [MINN. R. 7090]

8.2 BEFORE WORK BEGINS, PERMITTEES MUST DELINEATE THE LOCATION OF AREAS NOT TO BE DISTURBED. [MINN. R.

8.3 PERMITTEES MUST MINIMIZE THE NEED FOR DISTURBANCE OF PORTIONS OF THE PROJECT WITH STEEP SLOPES. WHEN STEEP SLOPES MUST BE DISTURBED, PERMITTEES MUST USE TECHNIQUES SUCH AS PHASING AND STABILIZATION PRACTICES DESIGNED FOR STEEP SLOPES (E.G., SLOPE DRAINING AND TERRACING). [MINN. R. 7090]

8.4 PERMITTEES MUST STABILIZE ALL EXPOSED SOIL AREAS, INCLUDING STOCKPILES. STABILIZATION MUST BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION WHEN CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS, STABILIZATION MUST BE COMPLETED NO LATER THAN 14 CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY HAS CEASED. STABILIZATION IS NOT REOUIRED ON CONSTRUCTED BASE COMPONENTS OF ROADS, PARKING LOTS AND SIMILAR SURFACES, STABILIZATION IS NOT REQUIRED ON TEMPORARY STOCKPILES WITHOUT SIGNIFICANT SILT. CLAY OR ORGANIC COMPONENTS (E.G., CLEAN AGGREGATE STOCKPILES, DEMOLITION CONCRETE STOCKPILES, SAND STOCKPILES) BUT PERMITTEES MUST PROVIDE SEDIMENT CONTROLS AT THE BASE OF THE STOCKPILE. [MINN. R. 7090]

8.5 FOR PUBLIC WATERS THAT THE MINNESOTA DNR HAS PROMULGATED "WORK IN WATER RESTRICTIONS" DURING SPECIFIED FISH SPAWNING TIME FRAMES, PERMITTEES MUST COMPLETE STABILIZATION OF ALL EXPOSED SOIL AREAS WITHIN 200 FEET OF THE WATER'S EDGE, AND THAT DRAIN TO THESE WATERS, WITHIN 24 HOURS DURING THE RESTRICTION PERIOD. [MINN. R. 7090]

8.6 PERMITTEES MUST STABILIZE THE NORMAL WETTED PERIMETER OF THE LAST 200 LINEAR FEET OF TEMPORARY OR PERMANENT DRAINAGE DITCHES OR SWALES THAT DRAIN WATER FROM THE SITE WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE. PERMITTEES MUST COMPLETE STABILIZATION OF REMAINING PORTIONS OF TEMPORARY OR PERMANENT DITCHES OR SWALES WITHIN 14 CALENDAR DAYS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE AND CONSTRUCTION IN THAT PORTION OF THE DITCH TEMPORARILY OR PERMANENTLY CEASES. [MINN.

8.7 TEMPORARY OR PERMANENT DITCHES OR SWALES BEING USED AS A SEDIMENT CONTAINMENT SYSTEM DURING CONSTRUCTION (WITH PROPERLY DESIGNED ROCK-DITCH CHECKS, BIO ROLLS, SILT DIKES, ETC.) DO NOT NEED TO BE STABILIZED. PERMITTEES MUST STABILIZE THESE AREAS WITHIN 24 HOURS AFTER THEIR USE AS A SEDIMENT CONTAINMENT SYSTEM CEASES. [MINN. R. 7090]

8.8 PERMITTEES MUST NOT USE MULCH, HYDROMULCH, TACKIFIER, POLYACRYLAMIDE OR SIMILAR EROSION PREVENTION PRACTICES WITHIN ANY PORTION OF THE NORMAL WETTED PERIMETER OF A TEMPORARY OR PERMANENT DRAINAGE DITCH OR SWALE SECTION WITH A CONTINUOUS SLOPE OF GREATER THAN 2 PERCENT. [MINN. R. 7090]

8.9 PERMITTEES MUST PROVIDE TEMPORARY OR PERMANENT ENERGY DISSIPATION AT ALL PIPE OUTLETS WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER OR PERMANENT STORMWATER TREATMENT SYSTEM. [MINN. R. 7090] 8.10 PERMITTEES MUST NOT DISTURB MORE LAND (I.E., PHASING) THAN CAN BE EFFECTIVELY INSPECTED AND MAINTAINED IN ACCORDANCE WITH SECTION 11. [MINN. R. 7090]

9.1 SEDIMENT CONTROL PRACTICES. [MINN. R. 7090]

9.2 PERMITTEES MUST ESTABLISH SEDIMENT CONTROL BMPS ON ALL DOWNGRADIENT PERIMETERS OF THE SITE AND DOWNGRADIENT AREAS OF THE SITE THAT DRAIN TO ANY SURFACE WATER, INCLUDING CURB AND GUTTER SYSTEMS ERMITTEES MUST LOCATE SEDIMENT CONTROL PRACTICES UPGRADIENT OF ANY BUFFER ZONES. PERMITTEES MUS INSTALL SEDIMENT CONTROL PRACTICES BEFORE ANY UPGRADIENT LAND-DISTURBING ACTIVITIES BEGIN AND MUST KEEP THE SEDIMENT CONTROL PRACTICES IN PLACE UNTIL THEY ESTABLISH PERMANENT COVER. [MINN. R. 7090]

9.3 IF DOWNGRADIENT SEDIMENT CONTROLS ARE OVERLOADED, BASED ON FREQUENT FAILURE OR EXCESSIVE MAINTENANCE REQUIREMENTS, PERMITTEES MUST INSTALL ADDITIONAL UPGRADIENT SEDIMENT CONTROL PRACTICES OR REDUNDANT BMPS TO ELIMINATE THE OVERLOADING AND AMEND THE SWPPP TO IDENTIFY THESE ADDITIONAL PRACTICES AS REOUIRED IN ITEM 6.3. [MINN. R. 7090]

9.4 TEMPORARY OR PERMANENT DRAINAGE DITCHES AND SEDIMENT BASINS DESIGNED AS PART OF A SEDIMENT CONTAINMENT SYSTEM (E.G., DITCHES WITH ROCK-CHECK DAMS) REQUIRE SEDIMENT CONTROL PRACTICES ONLY AS APPROPRIATE FOR SITE CONDITIONS. [MINN. R. 7090]

9.5 A FLOATING SILT CURTAIN PLACED IN THE WATER IS NOT A SEDIMENT CONTROL BMP TO SATISFY ITEM 9.2 EXCEPT WHEN WORKING ON A SHORELINE OR BELOW THE WATERLINE. IMMEDIATELY AFTER THE SHORT TERM CONSTRUCTION ACTIVITY (E.G., INSTALLATION OF RIP RAP ALONG THE SHORELINE) IN THAT AREA IS COMPLETE, PERMITTEES MUST INSTALL AN UPLAND PERIMETER CONTROL PRACTICE IF EXPOSED SOILS STILL DRAIN TO A SURFACE WATER. [MINN. R. 7090] 9.6 PERMITTEES MUST RE-INSTALL ALL SEDIMENT CONTROL PRACTICES ADJUSTED OR REMOVED TO ACCOMMODATE SHORT-TERM ACTIVITIES SUCH AS CLEARING OR GRUBBING, OR PASSAGE OF VEHICLES, IMMEDIATELY AFTER THE SHORT-TERM ACTIVITY IS COMPLETED. PERMITTEES MUST RE-INSTALL SEDIMENT CONTROL PRACTICES BEFORE THE NEXT PRECIPITATION EVENT EVEN IF THE SHORT-TERM ACTIVITY IS NOT COMPLETE. [MINN. R. 7090]

9.7 PERMITTEES MUST PROTECT ALL STORM DRAIN INLETS USING APPROPRIATE BMPS DURING CONSTRUCTION UNTIL THEY ESTABLISH PERMANENT COVER ON ALL AREAS WITH POTENTIAL FOR DISCHARGING TO THE INLET. [MINN. R. 7090] 9.8 PERMITTEES MAY REMOVE INLET PROTECTION FOR A PARTICULAR INLET IF A SPECIFIC SAFETY CONCERN (E.G. STREET FLOODING/FREEZING) IS IDENTIFIED BY THE PERMITTEES OR THE JURISDICTIONAL AUTHORITY (E.G. CITY/COUNTY/TOWNSHIP/MINNESOTA DEPARTMENT OF TRANSPORTATION ENGINEER). PERMITTEES MUST DOCUMENT THE NEED FOR REMOVAL IN THE SWPPP. [MINN. R. 7090]

9.9 PERMITTEES MUST PROVIDE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS AT THE BASE OF STOCKPILES ON

THE DOWNGRADIENT PERIMETER. [MINN. R. 7090] 9.10 PERMITTEES MUST LOCATE STOCKPILES OUTSIDE OF NATURAL BUFFERS OR SURFACE WATERS, INCLUDING STORMWATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS UNLESS THERE IS A BYPASS IN PLACE FOR THE

9.11 PERMITTEES MUST INSTALL A VEHICLE TRACKING BMP TO MINIMIZE THE TRACK OUT OF SEDIMENT FROM THE CONSTRUCTION SITE OR ONTO PAVED ROADS WITHIN THE SITE. [MINN. R. 7090]

9.12 PERMITTEES MUST USE STREET SWEEPING IF VEHICLE TRACKING BMPS ARE NOT ADEQUATE TO PREVENT SEDIMENT TRACKING ONTO THE STREET. [MINN. R. 7090]

9.13 PERMITTEES MUST INSTALL TEMPORARY SEDIMENT BASINS AS REQUIRED IN SECTION 14. [MINN. R. 7090] 9.14 IN ANY AREAS OF THE SITE WHERE FINAL VEGETATIVE STABILIZATION WILL OCCUR, PERMITTEES MUST RESTRICT

VEHICLE AND EQUIPMENT USE TO MINIMIZE SOIL COMPACTION. [MINN. R. 7090] 9.15 PERMITTEES MUST PRESERVE TOPSOIL ON THE SITE, UNLESS INFEASIBLE. [MINN. R. 7090]

9.16 PERMITTEES MUST DIRECT DISCHARGES FROM BMPS TO VEGETATED AREAS UNLESS INFEASIBLE. [MINN. R. 7090] 9.17 PERMITTEES MUST PRESERVE A 50 FOOT NATURAL BUFFER OR, IF A BUFFER IS INFEASIBLE ON THE SITE, PROVIDE

REDUNDANT (DOUBLE) PERIMETER SEDIMENT CONTROLS WHEN A SURFACE WATER IS LOCATED WITHIN 50 FEET OF THE PROJECT'S EARTH DISTURBANCES AND STORMWATER FLOWS TO THE SURFACE WATER, PERMITTEES MUST INSTALL PERIMETER SEDIMENT CONTROLS AT LEAST 5 FEET APART UNLESS LIMITED BY LACK OF AVAILABLE SPACE. NATURAL BUFFERS ARE NOT REQUIRED ADJACENT TO ROAD DITCHES, JUDICIAL DITCHES, COUNTY DITCHES, STORMWATER CONVEYANCE CHANNELS, STORM DRAIN INLETS, AND SEDIMENT BASINS. IF PRESERVING THE BUFFER IS INFEASIBLE PERMITTEES MUST DOCUMENT THE REASONS IN THE SWPPP. SHEET PILING IS A REDUNDANT PERIMETER CONTROL II INSTALLED IN A MANNER THAT RETAINS ALL STORMWATER. [MINN. R. 7090]

9.18 PERMITTEES MUST USE POLYMERS, FLOCCULANTS, OR OTHER SEDIMENTATION TREATMENT CHEMICALS IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES, DOSING SPECIFICATIONS AND SEDIMENT REMOVAL DESIGN SPECIFICATIONS PROVIDED BY THE MANUFACTURER OR SUPPLIER. THE PERMITTEES MUST USE CONVENTIONAL EROSION AND SEDIMENT CONTROLS PRIOR TO CHEMICAL ADDITION AND MUST DIRECT TREATED STORMWATER TO A SEDIMENT CONTROL SYSTEM FOR FILTRATION OR SETTLEMENT OF THE FLOC PRIOR TO DISCHARGE. [MINN. R. 7090]

10.1 DEWATERING AND BASIN DRAINING. [MINN. R. 7090]

10.2 PERMITTEES MUST DISCHARGE TURBID OR SEDIMENT-LADEN WATERS RELATED TO DEWATERING OR BASIN DRAINING (E.G., PUMPED DISCHARGES, TRENCH/DITCH CUTS FOR DRAINAGE) TO A TEMPORARY OR PERMANENT SEDIMENT BASIN ON THE PROJECT SITE UNLESS INFEASIBLE. PERMITTEES MAY DEWATER TO SURFACE WATERS IF THEY VISUALLY CHECK TO ENSURE ADEQUATE TREATMENT HAS BEEN OBTAINED AND NUISANCE CONDITIONS (SEE MINN, R, 7050.0210, SUBP. 2) WILL NOT RESULT FROM THE DISCHARGE. IF PERMITTEES CANNOT DISCHARGE THE WATER TO A SEDIMENTATION BASIN PRÍOR TO ENTERING A SURFACE WATER, PERMITTEES MUST TREAT IT WITH APPROPRIATE BMPS SUCH THAT THE DISCHARGE DOES NOT ADVERSELY AFFECT THE SURFACE WATER OR DOWNSTREAM PROPERTIES. [MINN. R. 7050.0210]

10.3 IF PERMITTEES MUST DISCHARGE WATER CONTAINING OIL OR GREASE, THEY MUST USE AN OIL-WATER SEPARATOR OR SUITABLE FILTRATION DEVICE (E.G., CARTRIDGE FILTERS, ABSORBENTS PADS) PRIOR TO DISCHARGE. [MINN. R. 7090] 10.4 PERMITTEES MUST DISCHARGE ALL WATER FROM DEWATERING OR BASIN-DRAINING ACTIVITIES IN A MANNER THAT DOES NOT CAUSE EROSION OR SCOUR IN THE IMMEDIATE VICINITY OF DISCHARGE POINTS OR INUNDATION OF WETLANDS IN THE IMMEDIATE VICINITY OF DISCHARGE POINTS THAT CAUSES SIGNIFICANT ADVERSE IMPACT TO THE WETLAND. [MINN.

10.5 IF PERMITTEES USE FILTERS WITH BACKWASH WATER, THEY MUST HAUL THE BACKWASH WATER AWAY FOR DISPOSAL RETURN THE BACKWASH WATER TO THE BEGINNING OF THE TREATMENT PROCESS, OR INCORPORATE THE BACKWASH WATER INTO THE SITE IN A MANNER THAT DOES NOT CAUSE EROSION. [MINN. R. 7090]

11.1 INSPECTIONS AND MAINTENANCE. [MINN. R. 7090]

11.2 PERMITTEES MUST ENSURE A TRAINED PERSON, AS IDENTIFIED IN ITEM 21.2.B, WILL INSPECT THE ENTIRE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 1/2 INCH IN 24 HOURS. [MINN. R. 7090]

11.3 PERMITTEES MUST INSPECT AND MAINTAIN ALL PERMANENT STORMWATER TREATMENT BMPS. [MINN. R. 7090] 11.4 PERMITTEES MUST INSPECT ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS AND POLLUTION PREVENTION MANAGEMENT MEASURES TO ENSURE INTEGRITY AND EFFECTIVENESS. PERMITTEES MUST REPAIR, REPLACE OR SUPPLEMENT ALL NONFUNCTIONAL BMPS WITH FUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY UNLESS ANOTHER TIME FRAME IS SPECIFIED IN ITEM 11.5 OR 11.6. PERMITTEES MAY TAKE ADDITIONAL TIME IF FIELD CONDITIONS PREVENT ACCESS TO THE AREA. [MINN. R. 7090]

11.5 DURING EACH INSPECTION, PERMITTEES MUST INSPECT SURFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS BUT NOT CURB AND GUTTER SYSTEMS. FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION. PERMITTEES MUST REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS, INCLUDING DRAINAGE WAYS, CATCH BASINS. AND OTHER DRAINAGE SYSTEMS AND RESTABILIZE THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED SOIL. PERMITTEES MUST COMPLETE REMOVAL AND STABILIZATION WITHIN SEVEN (7) CALENDAR DAYS OF DISCOVERY UNLESS PRECLUDED BY LEGAL REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS, PERMITTEES MUST USE ALL REASONABLE FEFORTS TO OBTAIN ACCESS. IF PRECLUDED. REMOVAL AND STABILIZATION MUST TAKE PLACE WITHIN SEVEN. (7) DAYS OF OBTAINING ACCESS, PERMITTEES ARE RESPONSIBLE FOR CONTACTING ALL LOCAL, REGIONAL, STATE AND FEDERAL AUTHORITIES AND RECEIVING ANY APPLICABLE PERMITS, PRIOR TO CONDUCTING ANY WORK IN SURFACE WATERS.

11.6 PERMITTEES MUST INSPECT CONSTRUCTION SITE VEHICLE EXIT LOCATIONS, STREETS AND CURB AND GUTTER SYSTEMS WITHIN AND ADJACENT TO THE PROJECT FOR SEDIMENTATION FROM EROSION OR TRACKED SEDIMENT FROM VEHICLES. PERMITTEES MUST REMOVE SEDIMENT FROM ALL PAVED SURFACES WITHIN ONE (1) CALENDAR DAY OF DISCOVERY OR, IF APPLICABLE, WITHIN A SHORTER TIME TO AVOID A SAFETY HAZARD TO USERS OF PUBLIC STREETS. [MINN R 7090]

11.7 PERMITTEES MUST REPAIR, REPLACE OR SUPPLEMENT ALL PERIMETER CONTROL DEVICES WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/2 OF THE HEIGHT OF THE DEVICE. [MINN. R. 7090]

11.8 PERMITTEES MUST DRAIN TEMPORARY AND PERMANENT SEDIMENTATION BASINS AND REMOVE THE SEDIMENT WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES 1/2 THE STORAGE VOLUME. [MINN. R. 7090] 11.9 PERMITTEES MUST ENSURE THAT AT LEAST ONE INDIVIDUAL PRESENT ON THE SITE (OR AVAILABLE TO THE PROJECT SITE IN THREE (3) CALENDAR DAYS) IS TRAINED IN THE JOB DUTIES DESCRIBED IN ITEM 21.2.B. [MINN. R. 7090] 11.10 PERMITTEES MAY ADJUST THE INSPECTION SCHEDULE DESCRIBED IN ITEM 11.2 AS FOLLOWS

- A. INSPECTIONS OF AREAS WITH PERMANENT COVER CAN BE REDUCED TO ONCE PER MONTH, EVEN IF CONSTRUCTION ACTIVITY CONTINUES ON OTHER PORTIONS OF THE SITE; OR
- B. WHERE SITES HAVE PERMANENT COVER ON ALL EXPOSED SOIL AND NO CONSTRUCTION ACTIVITY IS OCCURRING ANYWHERE ON THE SITE, INSPECTIONS CAN BE REDUCED TO ONCE PER MONTH AND, AFTER 12 MONTHS, MAY BE SUSPENDED COMPLETELY UNTIL CONSTRUCTION ACTIVITY RESUMES. THE MPCA MAY REQUIRE INSPECTIONS TO RESUME IF CONDITIONS WARRANT; OR
- C. WHERE CONSTRUCTION ACTIVITY HAS BEEN SUSPENDED DUE TO FROZEN GROUND CONDITIONS, INSPECTIONS MAY BE SUSPENDED. INSPECTIONS MUST RESUME WITHIN 24 HOURS OF RUNOFF OCCURRING, OR UPON RESUMING CONSTRUCTION, WHICHEVER COMES FIRST. [MINN. R. 7090]

11.11 PERMITTEES MUST RECORD ALL INSPECTIONS AND MAINTENANCE ACTIVITIES WITHIN 24 HOURS OF BEING CONDUCTED AND THESE RECORDS MUST BE RETAINED WITH THE SWPPP. THESE RECORDS MUST INCLUDE:

- A. DATE AND TIME OF INSPECTIONS; AND
- B. NAME OF PERSONS CONDUCTING INSPECTIONS; AND

THAT PROVIDES SITE SPECIFIC RAINFALL DATA FROM RADAR SUMMARIES; AND

- C. ACCURATE FINDINGS OF INSPECTIONS, INCLUDING THE SPECIFIC LOCATION WHERE CORRECTIVE ACTIONS ARE NEEDED; AND
- D. CORRECTIVE ACTIONS TAKEN (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES); AND E. DATE OF ALL RAINFALL EVENTS GREATER THAN 1/2 INCHES IN 24 HOURS, AND THE AMOUNT OF RAINFALL FOR EACH EVENT. PERMITTEES MUST OBTAIN RAINFALL AMOUNTS BY EITHER A PROPERLY MAINTAINED RAIN GAUGE INSTALLED ONSITE. A WEATHER STATION THAT IS WITHIN ONE (1) MILE OF YOUR LOCATION, OR A WEATHER REPORTING SYSTEM
- F. IF PERMITTEES OBSERVE A DISCHARGE DURING THE INSPECTION, THEY MUST RECORD AND SHOULD PHOTOGRAPH AND DESCRIBE THE LOCATION OF THE DISCHARGE (I.E., COLOR, ODOR, SETTLED OR SUSPENDED SOLIDS, OIL SHEEN, AND OTHER OBVIOUS INDICATORS OF POLLUTANTS); AND

G. ANY AMENDMENTS TO THE SWPPP PROPOSED AS A RESULT OF THE INSPECTION MUST BE DOCUMENTED AS REQUIRED IN SECTION 6 WITHIN SEVEN (7) CALENDAR DAYS, [MINN, R. 7090]

12.1 POLLUTION PREVENTION MANAGEMENT MEASURES. [MINN. R. 7090] 12.2 PERMITTEES MUST PLACE BUILDING PRODUCTS AND LANDSCAPE MATERIALS UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) OR PROTECT THEM BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER. PERMITTEES ARE NOT REQUIRED TO COVER OR PROTECT PRODUCTS WHICH ARE EITHER NOT A SOURCE OF CONTAMINATION TO STORMWATER OR ARE DESIGNED TO BE EXPOSED TO STORMWATER. [MINN. R. 7090]

12.3 PERMITTEES MUST PLACE PESTICIDES, FERTILIZERS AND TREATMENT CHEMICALS UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) OR PROTECT THEM BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER. [MINN. R. 7090]

12.4 PERMITTEES MUST STORE HAZARDOUS MATERIALS AND TOXIC WASTE, (INCLUDING OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS) IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE. STORAGE AND DISPOSAL OF HAZARDOUŚ WASTE MATERIALS MUST BE IN COMPLIANCE WITH MINN. R. CH. 7045 INCLUDING SECONDARY CONTAINMENT AS APPLICABLE. [MINN. R. 7090]

12.6 PERMITTEES MUST POSITION PORTABLE TOILETS SO THEY ARE SECURE AND WILL NOT TIP OR BE KNOCKED OVER. PERMITTEES MUST PROPERLY DISPOSE SANITARY WASTE IN ACCORDANCE WITH MINN. R. CH. 7041. [MINN. R. 7041] 12.7 PERMITTEES MUST TAKE REASONABLE STEPS TO PREVENT THE DISCHARGE OF SPILLED OR LEAKED CHEMICALS. INCLUDING FUEL, FROM ANY AREA WHERE CHEMICALS OR FUEL WILL BE LOADED OR UNLOADED INCLUDING THE USE OF DRIP PANS OR ABSORBENTS UNI ESS INFFASIBLE. PERMITTEES MUST ENSURE ADEQUATE SUPPLIES ARE AVAILABLE AT ALL TIMES TO CLEAN UP DISCHARGED MATERIALS AND THAT AN APPROPRIATE DISPOSAL METHOD IS AVAILABLE FOR RECOVERED SPILLED MATERIALS. PERMITTEES MUST REPORT AND CLEAN UP SPILLS IMMEDIATELY AS REQUIRED BY MINN.

12.5 PERMITTEES MUST PROPERLY STORE, COLLECT AND DISPOSE SOLID WASTE IN COMPLIANCE WITH MINN. R. CH. 7035.

STAT. 115.061, USING DRY CLEAN UP MEASURES WHERE POSSIBLE. [MINN. STAT. 115.061] 12.8 PERMITTEES MUST LIMIT VEHICLE EXTERIOR WASHING AND FOUIPMENT TO A DEFINED AREA OF THE SITE, PERMITTEES MUST CONTAIN RUNOFF FROM THE WASHING AREA IN A SEDIMENT BASIN OR OTHER SIMILARLY EFFECTIVE CONTROLS AND MUST DISPOSE WASTE FROM THE WASHING ACTIVITY PROPERLY. PERMITTEES MUST PROPERLY USE AND STORE SOAPS, DETERGENTS, OR SOLVENTS. [MINN. R. 7090]

12.9 PERMITTEES MUST PROVIDE EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT OPERATIONS (F.G., CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS) RELATED TO THE CONSTRUCTION ACTIVITY. PERMITTEES MUST PREVENT LIQUID AND SOLID WASHOUT WASTES FROM CONTACTING THE GROUND AND MUST DESIGN THE CONTAINMENT SO IT DOES NOT RESULT IN RUNOFF FROM THE WASHOUT OPERATIONS OR AREAS. PERMITTEES MUST PROPERLY DISPOSE LIQUID AND SOLID WASTES IN COMPLIANCE WITH MPCA RULES. PERMITTEES MUST INSTALL A SIGN INDICATING THE LOCATION OF THE WASHOUT FACILITY. [MINN. R.

13.1 PERMIT TERMINATION CONDITIONS. [MINN. R. 7090]

13.2 PERMITTEES MUST COMPLETE ALL CONSTRUCTION ACTIVITY AND MUST INSTALL PERMANENT COVER OVER ALL AREAS PRIOR TO SUBMITTING THE NOT. VEGETATIVE COVER MUST CONSIST OF A UNIFORM PERENNIAL VEGETATION WITH A DENSITY OF 70 PERCENT OF ITS EXPECTED FINAL GROWTH, VEGETATION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA DICTATES NO VEGETATION, SUCH AS IMPERVIOUS SURFACES OR THE BASE OF A SAND FILTER. [MINN. R.

13.3 PERMITTEES MUST CLEAN THE PERMANENT STORMWATER TREATMENT SYSTEM OF ANY ACCUMULATED SEDIMENT AND MUST ENSURE THE SYSTEM MEETS ALL APPLICABLE REQUIREMENTS IN SECTION 15 THROUGH 19 AND IS OPERATING AS DESIGNED. [MINN. R. 7090]

13.4 PERMITTEES MUST REMOVE ALL SEDIMENT FROM CONVEYANCE SYSTEMS PRIOR TO SUBMITTING THE NOT. [MINN. R. 13.5 PERMITTEES MUST REMOVE ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMPS PRIOR

TO SUBMITTING THE NOT. PERMITTEES MAY LEAVE BMPS DESIGNED TO DECOMPOSE ON-SITE IN PLACE. [MINN. R. 7090] 13.6 FOR RESIDENTIAL CONSTRUCTION ONLY, PERMIT COVERAGE TERMINATES ON INDIVIDUAL LOTS IF THE STRUCTURES ARE FINISHED AND TEMPORARY EROSION PREVENTION AND DOWNGRADIENT PERIMETER CONTROL IS COMPLETE, THE RESIDENCE SELLS TO THE HOMEOWNER, AND THE PERMITTEE DISTRIBUTES THE MPCA'S "HOMEOWNER FACT SHEET" TO THE HOMEOWNER. [MINN. R. 7090]

13.7 FOR CONSTRUCTION PROJECTS ON AGRICULTURAL LAND (E.G., PIPELINES ACROSS CROPLAND), PERMITTEES MUST RETURN THE DISTURBED LAND TO ITS PRECONSTRUCTION AGRICULTURAL USE PRIOR TO SUBMITTING THE NOT. [MINN. R.

14.1 TEMPORARY SEDIMENT BASINS. [MINN. R. 7090]

WHICHEVER IS GREATER. [MINN. R. 7090]

TO A COMMON LOCATION. [MINN. R. 7090]

14.2 WHERE TEN (10) OR MORE ACRES OF DISTURBED SOIL DRAIN TO A COMMON LOCATION, PERMITTEES MUST PROVIDE A TEMPORARY SEDIMENT BASIN TO PROVIDE TREATMENT OF THE RUNOFF BEFORE IT LEAVES THE CONSTRUCTION SITE OR ENTERS SURFACE WATERS. PERMITTEES MAY CONVERT A TEMPORARY SEDIMENT BASIN TO A PERMANENT BASIN AFTER CONSTRUCTION IS COMPLETE. THE TEMPORARY BASIN IS NO LONGER REQUIRED WHEN PERMANENT COVER HAS REDUCED. THE ACREAGE OF DISTURBED SOIL TO LESS THAN TEN (10) ACRES DRAINING TO A COMMON LOCATION. [MINN. R. 7090] 14.3 THE TEMPORARY BASIN MUST PROVIDE LIVE STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A TWO (2)-YEAR, 24-HOUR STORM FROM EACH ACRE DRAINED TO THE BASIN OR 1,800 CUBIC FEET OF LIVE STORAGE PER ACRE DRAINED,

14.4 WHERE PERMITTEES HAVE NOT CALCULATED THE TWO (2)-YEAR, 24-HOUR STORM RUNOFF AMOUNT, THE TEMPORARY BASIN MUST PROVIDE 3,600 CUBIC FEET OF LIVE STORAGE PER ACRE OF THE BASINS' DRAINAGE AREA. [MINN. R. 7090] 14.5 PERMITTEES MUST DESIGN BASIN OUTLETS TO PREVENT SHORT-CIRCUITING AND THE DISCHARGE OF FLOATING DEBRIS [MINN R. 7090]

14.6 PERMITTEES MUST DESIGN THE OUTLET STRUCTURE TO WITHDRAW WATER FROM THE SURFACE TO MINIMIZE THE

DISCHARGE OF POLLUTANTS. PERMITTEES MAY TEMPORARILY SUSPEND THE USE OF A SURFACE WITHDRAWAL MECHANISM DURING FROZEN CONDITIONS. THE BASIN MUST INCLUDE A STABILIZED EMERGENCY OVERFLOW TO PREVENT FAILURE OF

14.7 PERMITTEES MUST PROVIDE ENERGY DISSIPATION FOR THE BASIN OUTLET WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER. [MINN. R. 7090] 14.8 PERMITTEES MUST LOCATE TEMPORARY BASINS OUTSIDE OF SURFACE WATERS AND ANY BUFFER ZONE REQUIRED IN

ITEM 23.11. [MINN. R. 7090] 14.9 PERMITTEES MUST CONSTRUCT THE TEMPORARY BASINS PRIOR TO DISTURBING 10 OR MORE ACRES OF SOIL DRAINING

14.10 WHERE A TEMPORARY SEDIMENT BASIN MEETING THE REQUIREMENTS OF ITEM 14.3 THROUGH 14.9 IS INFEASIBLE, PERMITTEES MUST INSTALL EFFECTIVE SEDIMENT CONTROLS SUCH AS SMALLER SEDIMENT BASINS AND/OR SEDIMENT TRAPS, SILT FENCES, VEGETATIVE BUFFER STRIPS OR ANY APPROPRIATE COMBINATION OF MEASURES AS DICTATED BY INDIVIDUAL SITE CONDITIONS, IN DETERMINING WHETHER INSTALLING A SEDIMENT BASIN IS INFEASIBLE, PERMITTEES MUST CONSIDER PUBLIC SAFETY AND MAY CONSIDER FACTORS SUCH AS SITE SOILS, SLOPE, AND AVAILABLE AREA ON-SITE. PERMITTEES MUST DOCUMENT THIS DETERMINATION OF INFEASIBILITY IN THE SWPPP. [MINN. R. 7090]

15.1 PERMANENT STORMWATER TREATMENT SYSTEM. [MINN. R. 7090]

15.2 PERMITTEES MUST DESIGN THE PROJECT SO ALL STORMWATER DISCHARGED FROM THE PROJECT DURING AND AFTER CONSTRUCTION ACTIVITIES DOES NOT CAUSE A VIOLATION OF STATE WATER QUALITY STANDARDS, INCLUDING NUISANCE CONDITIONS, EROSION IN RECEIVING CHANNELS OR ON DOWNSLOPE PROPERTIES, OR A SIGNIFICANT ADVERSE IMPACT TO WETLANDS CAUSED BY INUNDATION OR DECREASE OF FLOW. [MINN. R. 7090]

15.3 PERMITTEES MUST DESIGN AND CONSTRUCT A PERMANENT STORMWATER TREATMENT SYSTEM TO TREAT THE WATER QUALITY VOLUME IF THE PROJECT'S ULTIMATE DEVELOPMENT REPLACES VEGETATION AND/OR OTHER PERVIOUS SURFACES CREATING A NET INCREASE OF ONE (1) OR MORE ACRES OF CUMULATIVE IMPERVIOUS SURFACE. [MINN. R. 7090] 15.4 PERMITTEES MUST CALCULATE THE WATER QUALITY VOLUME AS ONE (1) INCH TIMES THE NET INCREASE OF IMPERVIOUS SURFACES CREATED BY THE PROJECT. [MINN. R. 7090]

15.5 PERMITTEES MUST FIRST CONSIDER VOLUME REDUCTION PRACTICES ON-SITE (E.G., INFILTRATION OR OTHER) WHEN DESIGNING THE PERMANENT STORMWATER TREATMENT SYSTEM. IF THIS PERMIT PROHIBITS INFILTRATION AS DESCRIBED IN ITEM 16.14 THROUGH ITEM 16.21, PERMITTEES MAY CONSIDER A WET SEDIMENTATION BASIN, FILTRATION BASIN OR REGIONAL POND. THIS PERMIT DOES NOT CONSIDER WET SEDIMENTATION BASINS AND FILTRATION SYSTEMS TO BE

15.6 FOR PROJECTS WHERE THE FULL VOLUME REDUCTION REQUIREMENT CANNOT BE MET ON-SITE, (E.G., THE SITE HAS INFILTRATION PROHIBITIONS), PERMITTEES MUST DOCUMENT THE REASONS IN THE SWPPP. [MINN. R. 7090] 15.7 PERMITTEES MUST DISCHARGE THE WATER QUALITY VOLUME TO A PERMANENT STORMWATER TREATMENT SYSTEM PRIOR TO DISCHARGE TO A SURFACE WATER. FOR PURPOSES OF THIS ITEM, SURFACE WATERS DO NOT INCLUDE MAN-MADE DRAINAGE SYSTEMS THAT CONVEY STORMWATER TO A PERMANENT STORMWATER TREATMENT SYSTEM. [MINN. R. 7090] 15.8 WHERE THE PROXIMITY TO BEDROCK PRECLUDES THE INSTALLATION OF ANY OF THE PERMANENT STORMWATER TREATMENT PRACTICES REQUIRED BY SECTIONS 15 THROUGH 19, PERMITTEES MUST INSTALL OTHER TREATMENT SUCH AS GRASSED SWALES, SMALLER PONDS, OR GRIT CHAMBERS, PRIOR TO THE DISCHARGE OF STORMWATER TO SURFACE WATERS [MINN R. 7090]

15.9 FOR LINEAR PROJECTS WHERE PERMITTEES CANNOT TREAT THE ENTIRE WATER OUALITY VOLUME WITHIN THE EXISTING RIGHTOF-WAY, PERMITTEES MUST MAKE A REASONABLE ATTEMPT TO OBTAIN ADDITIONAL RIGHT-OF-WAY, EASEMENT OR OTHER PERMISSION FOR STORMWATER TREATMENT DURING THE PROJECT PLANNING PROCESS. DOCUMENTATION OF THESE ATTEMPTS MUST BE IN THE SWPPP. PERMITTEES MUST STILL CONSIDER VOLUME REDUCTION PRACTICES FIRST AS DESCRIBED IN ITEM 15.5. IF PERMITTEES CANNOT OBTAIN ADDITIONAL RIGHT-OF-WAY, EASEMENT OR OTHER PERMISSION, THEY MUST MAXIMIZE THE TREATMENT OF THE WATER QUALITY VOLUME PRIOR TO DISCHARGE TO SURFACE WATERS. [MINN. R. 7090]

16.1 INFILTRATION SYSTEMS. [MINN. R. 7090]

16.2 INFILTRATION OPTIONS INCLUDE, BUT ARE NOT LIMITED TO: INFILTRATION BASINS, INFILTRATION TRENCHES, RAINWATER GARDENS, BIORETENTION AREAS WITHOUT UNDERDRAINS, SWALES WITH IMPERMEABLE CHECK DAMS, AND NATURAL DEPRESSIONS. IF PERMITTEES UTILIZE AN INFILTRATION SYSTEM TO MEET THE REQUIREMENTS OF THIS PERMIT, THEY MUST INCORPORATE THE DESIGN PARAMETERS IN ITEM 16.3 THROUGH ITEM 16.21. PERMITTEES MUST FOLLOW THE INFILTRATION PROHIBITION IN ITEM 16.14 ANYTIME AN INFILTRATION SYSTEM IS DESIGNED, INCLUDING THOSE NOT

16.3 PERMITTEES MUST DESIGN INFILTRATION SYSTEMS SUCH THAT PRE-EXISTING HYDROLOGIC CONDITIONS OF WETLANDS IN THE VICINITY ARE NOT IMPACTED (E.G., INUNDATION OR BREACHING A PERCHED WATER TABLE SUPPORTING A WETLAND). [MINN. R. 7090] 16.4 PERMITTEES MUST NOT EXCAVATE INFILTRATION SYSTEMS TO FINAL GRADE, OR WITHIN THREE (3) FEET OF FINAL

GRADE, UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN CONSTRUCTED AND FULLY STABILIZED UNLESS THEY PROVIDE RIGOROUS EROSION PREVENTION AND SEDIMENT CONTROLS (E.G., DIVERSION BERMS) TO KEEP SEDIMENT AND RUNOFF COMPLETELY AWAY FROM THE INFILTRATION AREA. [MINN. R. 7090]

16.5 WHEN EXCAVATING AN INFILTRATION SYSTEM TO WITHIN THREE (3) FEET OF FINAL GRADE, PERMITTEES MUST STAKE OFF AND MARK THE AREA SO HEAVY CONSTRUCTION VEHICLES OR EQUIPMENT DO NOT COMPACT THE SOIL IN THE INFILTRATION AREA. [MINN. R. 7090]

16.6 PERMITTEES MUST USE A PRETREATMENT DEVICE SUCH AS A VEGETATED FILTER STRIP, FOREBAY, OR WATER QUALITY INLET (E.G., GRIT CHAMBER) TO REMOVE SOLIDS, FLOATING MATERIALS, AND OIL AND GREASE FROM THE RUNOFF, TO THE MAXIMUM EXTENT PRACTICABLE, BEFORE THE SYSTEM ROUTES STORMWATER TO THE INFILTRATION SYSTEM. [MINN. R. 16.7 PERMITTEES MUST DESIGN INFILTRATION SYSTEMS TO PROVIDE A WATER QUALITY VOLUME (CALCULATED AS AN INSTANTANEOUS VOLUME) OF ONE (1) INCH OF RUNOFF, OR ONE (1) INCH MINUS THE VOLUME OF STORMWATER TREATED

BY ANOTHER SYSTEM ON THE SITE, FROM THE NET INCREASE OF IMPERVIOUS SURFACES CREATED BY THE PROJECT. [MINN. 16.8 PERMITTEES MUST DESIGN THE INFILTRATION SYSTEM TO DISCHARGE ALL STORMWATER (INCLUDING STORMWATER IN EXCESS OF THE WATER QUALITY VOLUME) ROUTED TO THE SYSTEM THROUGH THE UPPERMOST SOIL SURFACE OR

ENGINEERED MEDIA SURFACE WITHIN 48 HOURS. PERMITTEES MUST ROUTE ADDITIONAL FLOWS THAT CANNOT INFILTRATE WITHIN 48 HOURS TO BYPASS THE SYSTEM THROUGH A STABILIZED DISCHARGE POINT. [MINN. R. 7090] 16.9 PERMITTEES MUST PROVIDE A MEANS TO VISUALLY VERIFY THE INFILTRATION SYSTEM IS DISCHARGING THROUGH THE SOIL SURFACE OR FILTER MEDIA SURFACE WITHIN 48 HOURS OR LESS. [MINN. R. 7090]

THE INFILTRATION PRACTICE FOR DETERMINING INFILTRATION RATES. [MINN. R. 7090] 16.11 FOR DESIGN PURPOSES, PERMITTEES MUST DIVIDE FIELD MEASURED INFILTRATION RATES BY 2 AS A SAFETY FACTOR OR PERMITTEES CAN USE SOIL-BORING RESULTS WITH THE INFILTRATION RATE CHART IN THE MINNESOTA STORMWATER MANUAL TO DETERMINE DESIGN INFILTRATION RATES. WHEN SOIL BORINGS INDICATE TYPE A SOILS, PERMITTEES SHOULD PERFORM FIFLD MEASUREMENTS TO VERIFY THE RATE IS NOT ABOVE 8.3 INCHES PER HOUR, THIS PERMIT PROHIBITS

16.10 PERMITTEES MUST PROVIDE AT LEAST ONE SOIL BORING, TEST PIT OR INFILTROMETER TEST IN THE LOCATION OF

INFILTRATION IF THE FIELD MEASURED INFILTRATION RATE IS ABOVE 8.3 INCHES PER HOUR. [MINN. R. 7090] 16.12 PERMITTEES MUST EMPLOY APPROPRIATE ON-SITE TESTING ENSURE A MINIMUM OF THREE (3) FEET OF SEPARATION FROM THE SEASONALLY SATURATED SOILS (OR FROM BEDROCK) AND THE BOTTOM OF THE PROPOSED INFILTRATION SYSTEM. [MINN. R. 7090]

16.13 PERMITTEES MUST DESIGN A MAINTENANCE ACCESS, TYPICALLY EIGHT (8) FEET WIDE, FOR THE INFILTRATION SYSTEM. [MINN. R. 7090] 16.14 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS THAT RECEIVE RUNOFF FROM

VEHICLE FUELING AND MAINTENANCE AREAS INCLUDING CONSTRUCTION OF INFILTRATION SYSTEMS NOT REQUIRED BY THIS PERMIT. [MINN. R. 7090] 16.15 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS WHERE INFILTRATING STORMWATER MAY MOBILIZE HIGH LEVELS OF CONTAMINANTS IN SOIL OR GROUNDWATER. PERMITTEES MUST EITHER COMPLETE THE MPCA'S CONTAMINATION SCREENING CHECKLIST OR CONDUCT THEIR OWN ASSESSMENT TO DETERMINE THE SUITABILITY FOR INFILTRATION. PERMITTEES MUST RETAIN THE CHECKLIST OR ASSESSMENT WITH THE SWPPP. FOR MORE

INFORMATION AND TO ACCESS THE MPCA'S "CONTAMINATION SCREENING CHECKLIST" SEE THE MINNESOTA STORMWATER

MANUAL. [MINN. R. 7090] 16.16 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS IN AREAS WHERE SOIL INFILTRATION RATES ARE FIELD MEASURED AT MORE THAN 8.3 INCHES PER HOUR UNLESS THEY AMEND SOILS TO SLOW THE INFILTRATION RATE BELOW 8.3 INCHES PER HOUR. [MINN. R. 7090]

16.17 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS IN AREAS WITH LESS THAN THREE (3) FEET OF SEPARATION DISTANCE FROM THE BOTTOM OF THE INFILTRATION SYSTEM TO THE ELEVATION OF THE SEASONALLY SATURATED SOILS OR THE TOP OF BEDROCK. [MINN. R. 7090] 16.18 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS IN AREAS OF PREDOMINATELY

HYDROLOGIC SOIL GROUP TYPE D SOILS (CLAY). [MINN. R. 7090] 16.19 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS WITHIN A DRINKING WATER SUPPLY MANAGEMENT AREA (DWSMA) AS DEFINED IN MINN. R. 4720.5100, SUBP. 13, IF THE SYSTEM WILL BE LOCATED:

A. IN AN EMERGENCY RESPONSE AREA (ERA) WITHIN A DWSMA CLASSIFIED AS HAVING HIGH OR VERY HIGH VULNERABILITY AS DEFINED BY THE MINNESOTA DEPARTMENT OF HEALTH; OR B. IN AN ERA WITHIN A DWSMA CLASSIFIED AS MODERATE VULNERABILITY UNLESS A REGULATED MS4 PERMITTEE PERFORMED OR APPROVED A HIGHER LEVEL OF ENGINEERING REVIEW SUFFICIENT TO PROVIDE A FUNCTIONING

TREATMENT SYSTEM AND TO PREVENT ADVERSE IMPACTS TO GROUNDWATER; OR C. OUTSIDE OF AN ERA WITHIN A DWSMA CLASSIFIED AS HAVING HIGH OR VERY HIGH VULNERABILITY, UNLESS A REGULATED MS4 PERMITTEE PERFORMED OR APPROVED A HIGHER LEVEL OF ENGINEERING REVIEW SUFFICIENT TO PROVIDE A FUNCTIONING TREATMENT SYSTEM AND TO PREVENT ADVERSE IMPACTS TO GROUNDWATER.

SEE "HIGHER LEVEL OF ENGINEERING REVIEW" IN THE MINNESOTA STORMWATER MANUAL FOR MORE INFORMATION. [MINN.

16.20 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS IN AREAS WITHIN 1,000 FEET

16.21 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS IN AREAS THAT RECEIVE RUNOFF FROM THE FOLLOWING INDUSTRIAL FACILITIES NOT AUTHORIZED TO INFILTRATE STORMWATER UNDER THE NPDES STORMWATER PERMIT FOR INDUSTRIAL ACTIVITIES: AUTOMOBILE SALVAGE YARDS; SCRAP RECYCLING AND WASTE RECYCLING FACILITIES; HAZARDOUS WASTE TREATMENT, STORAGE, OR DISPOSAL FACILITIES; OR AIR TRANSPORTATION

17.1 FILTRATION SYSTEMS. [MINN. R. 7090]

FACILITIES THAT CONDUCT DEICING ACTIVITIES. [MINN. R. 7090]

17.2 FILTRATION OPTIONS INCLUDE, BUT ARE NOT LIMITED TO: SAND FILTERS WITH UNDERDRAINS, BIOFILTRATION AREAS, SWALES USING UNDERDRAINS WITH IMPERMEABLE CHECK DAMS AND UNDERGROUND SAND FILTERS. IF PERMITTEES UTILIZE A FILTRATION SYSTEM TO MEET THE PERMANENT STORMWATER TREATMENT REQUIREMENTS OF THIS PERMIT, THEY MUST COMPLY WITH ITEMS 17.3 THROUGH 17.11. [MINN. R. 7090]

17.3 PERMITTEES MUST NOT INSTALL FILTER MEDIA UNTIL THEY CONSTRUCT AND FULLY STABILIZE THE CONTRIBUTING DRAINAGE AREA UNLESS THEY PROVIDE RIGOROUS EROSION PREVENTION AND SEDIMENT CONTROLS (E.G., DIVERSION BERMS) TO KEEP SEDIMENT AND RUNOFF COMPLETELY AWAY FROM THE FILTRATION AREA. [MINN. R. 7090] 17.4 PERMITTEES MUST DESIGN FILTRATION SYSTEMS TO REMOVE AT LEAST 80 PERCENT OF TSS. [MINN. R. 7090]

17.5 PERMITTEES MUST USE A PRETREATMENT DEVICE SUCH AS A VEGETATED FILTER STRIP, SMALL SEDIMENTATION BASIN WATER QUALITY INLET, FOREBAY OR HYDRODYNAMIC SEPARATOR TO REMOVE SETTLEABLE SOLIDS, FLOATING MATERIALS, AND OILS AND GREASE FROM THE RUNOFF, TO THE MAXIMUM EXTENT PRACTICABLE, BEFORE RUNOFF ENTERS THE FILTRATION SYSTEM. [MINN. R. 7090]

17.6 PERMITTEES MUST DESIGN FILTRATION SYSTEMS TO TREAT A WATER QUALITY VOLUME (CALCULATED AS AN INSTANTANEOUS VOLUME) OF ONE (1) INCH OF RUNOFF, OR ONE (1) INCH MINUS THE VOLUME OF STORMWATER TREATED BY ANOTHER SYSTEM ON THE SITE, FROM THE NET INCREASE OF IMPERVIOUS SURFACES CREATED BY THE PROJECT. [MINN.

17.7 PERMITTEES MUST DESIGN THE FILTRATION SYSTEM TO DISCHARGE ALL STORMWATER (INCLUDING STORMWATER IN EXCESS OF THE WATER QUALITY VOLUME) ROUTED TO THE SYSTEM THROUGH THE UPPERMOST SOIL SURFACE OR ENGINEERED MEDIA SURFACE WITHIN 48 HOURS. ADDITIONAL FLOWS THAT THE SYSTEM CANNOT FILTER WITHIN 48 HOURS MUST BYPASS THE SYSTEM OR DISCHARGE THROUGH AN EMERGENCY OVERFLOW. [MINN. R. 7090]

DISCHARGING THROUGH THE SOIL SURFACE OR FILTER MEDIA WITHIN 48 HOURS. [MINN. R. 7090] 17.9 PERMITTEES MUST EMPLOY APPROPRIATE ON-SITE TESTING TO ENSURE A MINIMUM OF THREE (3) FEET OF SEPARATION BETWEEN THE SEASONALLY SATURATED SOILS (OR FROM BEDROCK) AND THE BOTTOM OF THE PROPOSED FILTRATION

17.8 PERMITTEES MUST DESIGN THE FILTRATION SYSTEM TO PROVIDE A MEANS TO VISUALLY VERIFY THE SYSTEM IS

SYSTEM. [MINN. R. 7090] 17.10 PERMITTEES MUST ENSURE THAT FILTRATION SYSTEMS WITH LESS THAN THREE (3) FEET OF SEPARATION BETWEEN SEASONALLY SATURATED SOILS OR FROM BEDROCK ARE CONSTRUCTED WITH AN IMPERMEABLE LINER. [MINN. R. 7090] 17.11 THE PERMITTEES MUST DESIGN A MAINTENANCE ACCESS, TYPICALLY EIGHT (8) FEET WIDE, FOR THE FILTRATION SYSTEM. [MINN. R. 7090]

18.1 WET SEDIMENTATION BASIN. [MINN. R. 7090]

18.2 PERMITTEES USING A WET SEDIMENTATION BASIN TO MEET THE PERMANENT STORMWATER TREATMENT REQUIREMENTS OF THIS PERMIT MUST INCORPORATE THE DESIGN PARAMETERS IN ITEM 18.3 THROUGH 18.10. [MINN. R.

18.3 PERMITTEES MUST DESIGN THE BASIN TO HAVE A PERMANENT VOLUME OF 1,800 CUBIC FEFT OF STORAGE BELOW THE OUTLIFT PIPE FOR EACH ACRE THAT DRAINS TO THE BASIN. THE BASIN'S PERMANENT VOLUME MUST REACH A MINIMUM. DEPTH OF AT LEAST THREE (3) FEET AND MUST HAVE NO DEPTH GREATER THAN 10 FEET. PERMITTEES MUST CONFIGURE THE BASIN TO MINIMIZE SCOUR OR RESUSPENSION OF SOLIDS. [MINN. R. 7090]

18.4 PERMITTEES MUST DESIGN THE BASIN TO PROVIDE LIVE STORAGE FOR A WATER QUALITY VOLUME (CALCULATED AS AN INSTANTANEOUS VOLUME) OF ONE (1) INCH OF RUNOFF, OR ONE (1) INCH MINUS THE VOLUME OF STORMWATER TREATED BY ANOTHER SYSTEM ON THE SITE, FROM THE NET INCREASE IN IMPERVIOUS SURFACES CREATED BY THE PROJECT. [MINN.

18.5 PERMITTEES MUST DESIGN BASIN OUTLETS SO THE WATER QUALITY VOLUME DISCHARGES AT NO MORE THAN 5.66 CUBIC FEET PER SECOND (CFS) PER ACRE OF SURFACE AREA OF THE BASIN. [MINN. R. 7090]

18.6 PERMITTEES MUST DESIGN BASIN OUTLETS TO PREVENT SHORT-CIRCUITING AND THE DISCHARGE OF FLOATING DEBRIS. BASIN OUTLETS MUST HAVE ENERGY DISSIPATION. [MINN. R. 7090] 18.7 PERMITTEES MUST DESIGN THE BASIN TO INCLUDE A STABILIZED EMERGENCY OVERFLOW TO ACCOMMODATE STORM EVENTS IN EXCESS OF THE BASIN'S HYDRAULIC DESIGN. [MINN. R. 7090]

18.8 PERMITTEES MUST DESIGN A MAINTENANCE ACCESS, TYPICALLY EIGHT (8) FEET WIDE, FOR THE BASIN. [MINN. R.

18.9 PERMITTEES MUST LOCATE BASINS OUTSIDE OF SURFACE WATERS AND ANY BUFFER ZONE REQUIRED IN ITEM 23.11. PERMITTEES MUST DESIGN BASINS TO AVOID DRAINING WATER FROM WETLANDS UNLESS THE IMPACT TO THE WETLAND COMPLIES WITH THE REQUIREMENTS OF SECTION 22. [MINN. R. 7090]

18.10 PERMITTEES MUST DESIGN BASINS USING AN IMPERMEABLE LINER IF LOCATED WITHIN ACTIVE KARST TERRAIN.

19.1 REGIONAL WET SEDIMENTATION BASINS. [MINN. R. 7090]

19.2 WHEN THE ENTIRE WATER QUALITY VOLUME CANNOT BE RETAINED ONSITE, PERMITTEES CAN USE OR CREATE REGIONAL WET SEDIMENTATION BASINS PROVIDED THEY ARE CONSTRUCTED BASINS, NOT A NATURAL WETLAND OR WATER BODY, (WETLANDS USED AS REGIONAL BASINS MUST BE MITIGATED FOR, SEE SECTION 22). THE OWNER MUST ENSURE THE REGIONAL BASIN CONFORMS TO ALL REQUIREMENTS FOR A WET SEDIMENTATION BASIN AS DESCRIBED IN ITEMS 18.3 THROUGH 18.10 AND MUST BE LARGE ENOUGH TO ACCOUNT FOR THE ENTIRE AREA THAT DRAINS TO THE REGIONAL BASIN PERMITTEES MUST VERIEY THAT THE REGIONAL BASIN WILL DISCHARGE AT NO MORE THAN 5.66 CES PER ACRE OF SURFACE AREA OF THE BASIN AND MUST PROVIDE A LIVE STORAGE VOLUME OF ONE INCH TIMES ALL THE IMPERVIOUS AREA DRAINING TO THE BASIN. PERMITTEES CANNOT SIGNIFICANTLY DEGRADE WATERWAYS BETWEEN THE PROJECT AND THE REGIONAL BASIN. THE OWNER MUST OBTAIN WRITTEN AUTHORIZATION FROM THE APPLICABLE LGU OR PRIVATE ENTITY THAT OWNS AND MAINTAINS THE REGIONAL BASIN. [MINN. R. 7090]

20.1 SWPPP AVAILABILITY. [MINN. R. 7090]

20.2 PERMITTEES MUST KEEP THE SWPPP, INCLUDING ALL CHANGES TO IT, AND INSPECTIONS AND MAINTENANCE RECORDS AT THE SITE DURING NORMAL WORKING HOURS BY PERMITTEES WHO HAVE OPERATIONAL CONTROL OF THAT PORTION OF

21.1 TRAINING REQUIREMENTS. [MINN. R. 7090]

21.2 PERMITTEES MUST ENSURE ALL OF THE FOLLOWING INDIVIDUALS RECEIVE TRAINING AND THE CONTENT AND EXTENT OF THE TRAINING IS COMMENSURATE WITH THE INDIVIDUAL'S JOB DUTIES AND RESPONSIBILITIES WITH REGARD TO ACTIVITIES COVERED UNDER THIS PERMIT:

A. INDIVIDUALS PREPARING THE SWPPP FOR THE PROJECT.

B. INDIVIDUALS OVERSEEING IMPLEMENTATION OF, REVISING AND/OR AMENDING THE SWPPP AND INDIVIDUALS PERFORMING INSPECTIONS FOR THE PROJECT. ONE OF THESE INDIVIDUALS MUST BE AVAILABLE FOR AN ONSITE INSPECTION WITHIN 72 HOURS UPON REQUEST BY THE MPCA.

C. INDIVIDUALS PERFORMING OR SUPERVISING THE INSTALLATION, MAINTENANCE AND REPAIR OF BMPS. [MINN. R. 7090] 21.3 PERMITTEES MUST ENSURE INDIVIDUALS IDENTIFIED IN SECTION 21 RECEIVE TRAINING FROM LOCAL, STATE, FEDERAL AGENCIES, PROFESSIONAL ORGANIZATIONS, OR OTHER ENTITIES WITH EXPERTISE IN EROSION PREVENTION, SEDIMENT CONTROL, PERMANENT STORMWATER TREATMENT AND THE MINNESOTA NPDES/SDS CONSTRUCTION STORMWATER PERMIT. PERMITTEES MUST ENSURE THESE INDIVIDUALS ATTEND A REFRESHER-TRAINING COURSE EVERY THREE (3) YEARS. [MINN.

24.1 GENERAL PROVISIONS. [MINN. R. 7090]

NOT. [MINN. R. 7090]

24.2 IF THE MPCA DETERMINES THAT AN INDIVIDUAL PERMIT WOULD MORE APPROPRIATELY REGULATE THE CONSTRUCTION ACTIVITY, THE MPCA MAY REQUIRE AN INDIVIDUAL PERMIT TO CONTINUE THE CONSTRUCTION ACTIVITY. COVERAGE UNDER THIS GENERAL PERMIT WILL REMAIN IN EFFECT UNTIL THE MPCA ISSUES AN INDIVIDUAL PERMIT. [MINN. R. 7001.0210, 24.3 IF THE PERMITTEE CANNOT MEET THE TERMS AND CONDITIONS OF THIS GENERAL PERMIT, AN OWNER MAY REQUEST

24.4 ANY INTERESTED PERSON MAY PETITION THE MPCA TO REQUIRE AN INDIVIDUAL NPDES/SDS PERMIT IN ACCORDANCE WITH 40 CFR 122.28(B)(3). [40 CFR 122.29(B)(3)] 24.5 PERMITTEES MUST MAKE THE SWPPP, INCLUDING ALL INSPECTION REPORTS, MAINTENANCE RECORDS, TRAINING RECORDS AND OTHER INFORMATION REQUIRED BY THIS PERMIT, AVAILABLE TO FEDERAL, STATE, AND LOCAL OFFICIALS WITHIN THREE (3) DAYS UPON REQUEST FOR THE DURATION OF THE PERMIT AND FOR THREE (3) YEARS FOLLOWING THE

AN INDIVIDUAL PERMIT, IN ACCORDANCE WITH MINN. R. 7001.0210 SUBP. 6. [MINN. R. 7001.0210, SUBP. 6]

24.6 PERMITTEES MAY NOT ASSIGN OR TRANSFER THIS PERMIT EXCEPT WHEN THE TRANSFER OCCURS IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF ITEM 3.7 AND 3.8. [MINN. R. 7090]

24.7 NOTHING IN THIS PERMIT MUST BE CONSTRUED TO RELIEVE THE PERMITTEES FROM CIVIL OR CRIMINAL PENALTIES FOR NONCOMPLIANCE WITH THE TERMS AND CONDITIONS PROVIDED HEREIN. NOTHING IN THIS PERMIT MUST BE CONSTRUED TO PRECLUDE THE INITIATION OF ANY LEGAL ACTION OR RELIEVE THE PERMITTEES FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES TO WHICH THE PERMITTEES IS/ARE OR MAY BE SUBJECT TO UNDER SECTION 311 OF THE CLEAN WATER ACT AND MINN, STAT. SECT. 115 AND 116, AS AMENDED, PERMITTEES ARE NOT LIABLE FOR PERMIT REQUIREMENTS FOR ACTIVITIES OCCURRING ON THOSE PORTIONS OF A SITE WHERE THE PERMIT HAS BEEN TRANSFERRED TO ANOTHER PARTY AS REQUIRED IN ITEM 3.7 OR THE PERMITTEES HAVE SUBMITTED THE NOT AS REQUIRED IN SECTION 4. [MINN. R. 7090]

24.8 THE PROVISIONS OF THIS PERMIT ARE SEVERABLE. IF ANY PROVISION OF THIS PERMIT OR THE APPLICATION OF ANY PROVISION OF THIS PERMIT TO ANY CIRCUMSTANCES IS HELD INVALID, THE APPLICATION OF SUCH PROVISION TO OTHER CIRCUMSTANCES, AND THE REMAINDER OF THIS PERMIT MUST NOT BE AFFECTED THEREBY. [MINN. R. 7090]

24.9 THE PERMITTEES MUST COMPLY WITH THE PROVISIONS OF MINN. R. 7001.0150, SUBP. 3 AND MINN. R. 7001.1090, SUBP. 1(A), 1(B), 1(C), 1(H), 1(I), 1(J), 1(K), AND 1(L). [MINN. R. 7090] 24.10 THE PERMITTEES MUST ALLOW ACCESS AS PROVIDED IN 40 CFR 122.41(I) AND MINN, STAT, SECT. 115.04, THE PERMITTEES MUST ALLOW REPRESENTATIVES OF THE MPCA OR ANY MEMBER, EMPLOYEE OR AGENT THEREOF, WHEN AUTHORIZED BY IT, UPON PRESENTATION OF CREDENTIALS, TO ENTER UPON ANY PROPERTY, PUBLIC OR PRIVATE, FOR THE PURPOSE OF OBTAINING INFORMATION OR EXAMINATION OF RECORDS OR CONDUCTING SURVEYS OR INVESTIGATIONS. [40

24.11 FOR THE PURPOSES OF MINN. R. 7090 AND OTHER DOCUMENTS THAT REFERENCE SPECIFIC SECTIONS OF THIS PERMIT, "STORMWATER DISCHARGE DESIGN REQUIREMENTS" CORRESPONDS TO SECTIONS 5, 6 AND 14 THROUGH 21; "CONSTRUCTION ACTIVITY REQUIREMENTS" CORRESPONDS TO SECTIONS 7 THROUGH 13; AND "APPENDIX A" CORRESPONDS TO SECTIONS 22 AND 23. [MINN. R. 7090]

STORM WATER POLLUTION PREVENTION PLAN

24-2141 ORIGINAL DATE: MAY 3, 2024

DRAWN BY:

M.Q.A.

CHCKD BY:

DESIGN BY

Q.M.A.

PROJ. NO.

PREPARED FOR: GLEN HARSTAD



& ENGINEERING

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ALLSTATE DISTRIBUTIONS COMMERCIAL BUILDING

RECEIVING WATERS WITHIN ONE MILE

NAME OF WATER BODY	TYPE OF WATER BODY	SPECIAL WATER	IMPAIRED WATER
COON CREEK	CREEK	NO	YES
ON-SITE WETLAND	BASIN	NO	NO
ON-SITE NURP BASIN	BASIN	NO	NO

BUFFER TO SURFACE WATER

IF THE SITE DRAINS TO A SURFACE WATER, IS A 50-FT NATURAL BUFFER ADJACENT TO THE SURFACE WATER PRESERVED?

NOTE: NATURAL BUFFERS ARE NOT REQUIRED ADJACENT TO ROAD DITCHES, JUDICIAL DITCHES, COUNTY DITCHES, STORMWATER CONVEYANCE CHANNELS, STORM DRAIN INLETS, AND SEDIMENT BASINS.

A) REDUNDANT PERIMETER CONTROL FEATURES ARE PROPOSED.

TEMPORARY SEDIMENTATION BASINS

IF TEN (10) OR MORE ACRES OF DISTURBED SOIL DRAIN TO A COMMON LOCATION, IS A TEMPORARY SEDIMENT BASIN PROVIDED FOR TREATMENT OF YES NO N/A THE RUNOFF BEFORE IT LEAVES THE CONSTRUCTION SITE OR ENTERS SURFACE WATERS?

A) WITH THE ENTIRE SITE ONLY 2.25 ACRES IN SIZE, IT IS NOT ANTICIPATED THAT THAT OVER 5 ACRES WILL BE DISTURBED.

INFILTRATION FEASIBILITY

ARE THERE ANY INFILTRATION RESTRICTIONS FOR THE SITE (SEE 16.14 YES NO N/A THROUGH 16.21?

A) INFILTRATION IS RESTRICTED DUE TO THE HIGH SEASONAL HIGH WATER TABLE OF 892.00

ADDITIONAL STORMWATER MITIGATION MEASURES

ARE THERE ANY STORMWATER MITIGATION MEASURES PER: YES NO • ENVIRONMENTAL REVIEW DOCUMENT?

- ENDANGERED SPECIES REVIEW?
- ARCHAEOLOGICAL REVIEW?
- OTHER LOCAL, STATE OR FEDERAL REVIEW?

IF YES TO ANY OF THE ABOVE, DESCRIBE THE MITIGATION MEASURES. FOR PURPOSES OF THIS PERMIT, MITIGATION MEASURES MEANS ACTIONS NECESSARY TO AVOID, MINIMIZE, OR MITIGATE FOR IMPACTS RELATED TO FROSION PREVENTION SEDIMENT CONTROL THE PERMANENT STORMWATER

TREATMENT SYSTEM. POLLUTION PREVENTION MANAGEMENT MEASURES AND

DISCHARGES ASSOCIATED WITH THE PROJECT'S CONSTRUCTION ACTIVITY. [MINN. R. 7090]

AVAILABLE, CONTRACTOR TO PROVIDE INFORMATION TO CITY AND WATERSHED

COON CREEK

ESCHERICHIA COLI (E. COLI);

ADDITIONAL IMPAIRMENTS: NONE

FISH BIOASSESSMENTS.

NEW IMPAIRMENTS: NONE

BENTHIC MACROINVERTEBRATES BIOASSESSMENTS:

CONTACT NAME	
CONTACT PHONE	TBD - WHEN INFORMATION BECOMES AVAILABLE, CONTRACTOR TO PROVI
CONTACT E MANU	INFORMATION TO CITY AND WATERSI

** SEEDED AREAS SHALL BE EITHER MULCHED OR COVERED BY FIBROUS BLANKETS TO PROTECT SEEDS AND LIMIT EROSION.

QUANTITIES - ESTIMATED QUANTITIES FOR EROSION AND SEDIMENT CONTROL MEASURES

TYPE		UNIT
SILT FENCE (TOTAL)	1,240	LINEAR FEET
REDUND. SED. CONTROL (EG. BIO-ROLLS, SILT FENCE)	208	LINEAR FEET
RIP-RAP W. GEO-FABRIC	19+	CUBIC YARDS
CATCH BASIN INLET PROTECTION	3	EACH
POND RIPRAP OVERFLOW	2	EACH
EROSION CONTROL BLANKET		SQUARE YARDS
SEED & MULCH (GENERAL)	0.69	ACRE
ROCK CONSTRUCTION ENTRANCE	1	EACH

NARRATIVE - TIMING FOR INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES

ALL EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS OR IMPLEMENTED IN THE FIELD SHALL BE IN ACCORDANCE WITH THE CITY AND NPDES PHASE II PERMIT REQUIREMENTS.

1. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND SWPPP MUST BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES.

INSTALL STABILIZED CONSTRUCTION ENTRANCE PROVIDE TEMPORARY PARKING AND STORAGE AREA.

INSTALL SILT FENCE AS SHOWN ON PLAN.

4.1. ADDITIONAL SILT FENCE MAY BE NECESSARY IF LOCAL CONDITIONS REQUIRE. 4.2. THE CONTRACTOR SHALL MAINTAIN SILT FENCE, INCLUDING THE REMOVAL OF ACCUMULATED SEDIMENT. THROUGH COMPLETION OF BUILDING CONSTRUCTION.

4.3. SILT FENCE SHALL REMAIN IN-PLACE UNTIL SITE HAS BEEN STABILIZED. 4.4. CONTRACTOR TO PROVIDE ADDITIONAL SILT FENCE, BIOROLLS, EROSION CONTROL BLANKET, OR OTHER APPROVED EQUAL FOR ANY SLOPES THAT APPEAR TO BE FAILING

INSTALL INLET PROTECTION FOR ALL EXISTING STORM SEWER STRUCTURES.

11. INSTALL TREE PROTECTION FENCING AS APPLICABLE. 12. PERFORM SITE GRADING ON AN AREA-BY-AREA BASIS TO MINIMIZE UNSTABILIZED

12.1.CONTRACTOR MUST IMMEDIATELY INITIATE STABILIZATION OF EXPOSED SOIL AREAS, AS DESCRIBED IN ITEM 8.4 OF THE PERMIT, AND COMPLETE THE STABILIZATION WITHIN SEVEN (7) CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE TEMPORARILY OR PERMANENTLY

12.2.CONTRACTOR TO PROVIDE TEMPORARY SEDIMENTATION BASINS AS REQUIRED IN SECTION 14.1 THROUGH 14.10. 13. PAY SPECIAL ATTENTION TO ADJACENT PROPERTY LINES TO ENSURE THE EROSION

CONTROL PRACTICES INPLACE IN THOSE AREAS PREVENT MIGRATION OF SEDIMENT ONTO ADJACENT PROPERTIES 14. STABILIZE SOIL STOCKPILES; STABILIZATION SHALL BE INITIATED IMMEDIATELY.

15. FINAL GRADE SWALE AREAS UPON STABILIZATION OF UPSTREAM AREAS.

16. CONTRACTOR SHALL BE RESPONSIBLE TO SWEEP/SCRAPE ADJACENT STREETS WHEN MATERIALS OR DEBRIS HAVE WASHED/FLOWED ONTO ADJACENT STREETS OR AS

PROVIDE TEMPORARY SEED FOR DISTURBED AREAS.

\INSTALL RIP-RAP AT FLARED-END SECTIONS. INSTALL TEMPORARY INLET PROTECTION FOR ALL STORM SEWER INLET STRUCTURES IN PAVING AREAS.INSTALL UTILITIES INCLUDING SANITARY SEWER, WATER MAIN,

STORM SEWER. 4. INSTALL CURB AND GUTTER.

PREPARE SITE FOR PAVING. PAVE SITE.

6.1. COORDINATE SMALL UTILITIES INSTALLATIONS (GAS, PHONE, ELECTRIC, CABLE, FIBEROPTIC. ETC.) AFTER PAVEMENT INSTALLATION. INSTALL INLET PROTECTION DEVICES.

COMPLETE GRADING AND INSTALL PERMANENT SEEDING AND/OR SOD.

9. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES ONLY AFTER SITE HAS BEEN STABILIZED.

NPDES DEFINITIONS

"BEST MANAGEMENT PRACTICES (BMPS)" MEANS THE MOST EFFECTIVE AND PRACTICABLE MEANS OF EROSION PREVENTION AND SEDIMENT CONTROL, AND WATER QUALITY MANAGEMENT PRACTICES THAT ARE THE MOST EFFECTIVE AND PRACTICABLE MEANS OF TO CONTROL, PREVENT, AND MINIMIZE DEGRADATION OF SURFACE WATER, INCLUDING AVOIDANCE OF IMPACTS, CONSTRUCTION-PHASING, MINIMIZING THE LENGTH OF TIME SOIL AREAS ARE EXPOSED, PROHIBITIONS, POLLUTION PREVENTION THROUGH GOOD HOUSEKEEPING, AND OTHER MANAGEMENT PRACTICES PUBLISHED BY STATE OR DESIGNATED AREA-WIDE PLANNING AGENCIES. [MINN. R. 7090]

"CONSTRUCTION ACTIVITY" MEANS ACTIVITIES INCLUDING CLEARING, GRADING, AND EXCAVATING, THAT RESULT IN LAND DISTURBANCE OF EQUAL TO OR GREATER THAN ONE ACRE, INCLUDING THE DISTURBANCE OF LESS THAN ONE ACRE OF TOTAL LAND AREA THAT IS PART OF A LARGER COMMON PLAN OF DEVELOPMENT OR SALE IF THE LARGER COMMON PLAN WILL ULTIMATELY DISTURB EQUAL TO OR GREATER THAN ONE ACRE. THIS INCLUDES A DISTURBANCE TO THE LAND THAT RESULTS IN A CHANGE IN THE TOPOGRAPHY, EXISTING SOIL COVER, BOTH VEGETATIVE AND NONVEGETATIVE, OR THE EXISTING SOIL TOPOGRAPHY THAT MAY RESULT IN ACCELERATED STORMWATER RUNOFF THAT MAY LEAD TO SOIL EROSION AND MOVEMENT OF SEDIMENT. CONSTRUCTION ACTIVITY DOES NOT INCLUDE A DISTURBANCE TO THE LAND OF LESS THAN FIVE ACRES FOR THE PURPOSE OF ROUTINE MAINTENANCE PERFORMED TO MAINTAIN THE ORIGINAL LINE AND GRADE, HYDRAULIC CAPACITY, AND ORIGINAL PURPOSE OF THE FACILITY. ROUTINE MAINTENANCE DOES NOT INCLUDE ACTIVITIES SUCH AS REPAIRS, REPLACEMENT AND OTHER TYPES OF NON-ROUTINE MAINTENANCE. PAVEMENT REHABILITATION THAT DOES NOT DISTURB THE UNDERLYING SOILS (E.G., MILL AND OVERLAY PROJECTS) IS NOT CONSTRUCTION ACTIVITY, [MINN, R. 7090]

"DEWATERING" MEANS THE REMOVAL OF SURFACE OR GROUND WATER TO DRY AND/OR SOLIDIFY A CONSTRUCTION SITE TO ENABLE CONSTRUCTION ACTIVITY. DEWATERING MAY REQUIRE A MINNESOTA DEPARTMENT OF NATURAL RESOURCES WATER APPROPRIATION PERMIT AND, IF DEWATERING WATER IS CONTAMINATED, DISCHARGE OF SUCH WATER MAY REQUIRE AN INDIVIDUAL MPCA NPDES/SDS PERMIT. [MINN. R. 7090]

"EROSION PREVENTION" MEANS MEASURES EMPLOYED TO PREVENT EROSION SUCH AS SOIL STABILIZATION PRACTICES, PERMANENT COVER OR CONSTRUCTION PHASING. [MINN.

"GENERAL CONTRACTOR" MEANS THE PARTY WHO SIGNS THE CONSTRUCTION CONTRACT WITH THE OWNER TO CONSTRUCT THE ENTIRE PROJECT DESCRIBED IN THE FINAL PLANS AND SPECIFICATIONS. WHERE THE CONSTRUCTION PROJECT INVOLVES MORE THAN ONE CONTRACTOR, THE GENERAL CONTRACTOR IS THE PARTY RESPONSIBLE FOR MANAGING THE ENTIRE PROJECT ON BEHALF OF THE OWNER, IN SOME CASES, THE OWNER IS THE GENERAL CONTRACTOR. IN THESE CASES, THE OWNER SIGNS THE PERMIT APPLICATION AS THE OPERATOR AND BECOMES THE SOLE PERMITTEE. [MINN. R. 7090]

"GROUNDWATER" MEANS THE WATER CONTAINED BELOW THE SURFACE OF THE EARTH IN THE SATURATED ZONE INCLUDING, WITHOUT LIMITATION, ALL WATERS WHETHER UNDER CONFINED, UNCONFINED, OR PERCHED CONDITIONS, IN NEAR SURFACE UNCONSOLIDATED SEDIMENT OR REGOLITH, OR IN ROCK FORMATIONS DEEPER UNDERGROUND. [MINN. R.

"HOMEOWNER FACT SHEET" MEANS AN MPCA FACT SHEET AVAILABLE ON THE MPCA CONSTRUCTION STORMWATER WEBSITE FOR PERMITTEES TO GIVE TO HOMEOWNERS AT THE TIME OF SALE. [MINN. R. 7090]

"INFEASIBLE" MEANS NOT TECHNOLOGICALLY POSSIBLE OR NOT ECONOMICALLY PRACTICABLE AND ACHIEVABLE IN LIGHT OF THE BEST INDUSTRY PRACTICES. [MINN. R.

"INITIATED IMMEDIATELY" MEANS TAKING AN ACTION TO COMMENCE SOIL STABILIZATION AS SOON AS PRACTICABLE, BUT NO LATER THAN THE END OF THE WORK DAY, FOLLOWING THE DAY WHEN THE LAND-DISTURBING ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE. IF THE PERMITTEES KNOW THAT CONSTRUCTION WORK ON THAT PORTION OF THE SITE WILL BE TEMPORARILY CEASED FOR 14 OR MORE ADDITIONAL CALENDAR DAYS OR 7 CALENDAR DAYS WHERE ITEM 23.9 APPLIES. PERMITTEES CAN INITIATE STABILIZATION BY: A. PREPPING THE SOIL FOR VEGETATIVE OR NON-VEGETATIVE STABILIZATION; OR B. APPLYING MULCH OR OTHER NON-VEGETATIVE PRODUCT TO THE EXPOSED SOIL AREA;

C. SEEDING OR PLANTING THE EXPOSED AREA; OR

D. STARTING ANY OF THE ACTIVITIES IN A - C ON A PORTION OF THE AREA TO BE STABILIZED, BUT NOT ON THE ENTIRE AREA; OR

E. FINALIZING ARRANGEMENTS TO HAVE STABILIZATION PRODUCT FULLY INSTALLED IN COMPLIANCE WITH THE APPLICABLE

DEADLINE FOR COMPLETING STABILIZATION. [MINN. R. 7090]

"IMPERVIOUS SURFACE" MEANS A CONSTRUCTED HARD SURFACE THAT EITHER PREVENTS OR RETARDS THE ENTRY OF WATER INTO THE SOIL AND CAUSES WATER TO RUN OFF THE SURFACE IN GREATER QUANTITIES AND AT AN INCREASED RATE OF FLOW THAN PRIOR TO DEVELOPMENT, EXAMPLES INCLUDE ROOFTOPS, SIDEWALKS, DRIVEWAYS, PARKING LOTS, AND CONCRETE, ASPHALT, OR GRAVEL ROADS. BRIDGES OVER SURFACE WATERS ARE

CONSIDERED IMPERVIOUS SURFACES. [MINN. R. 7090] "NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)" MEANS THE PROGRAM FOR ISSUING, MODIFYING, REVOKING, REISSUING, TERMINATING, MONITORING, AND ENFORCING PERMITS UNDER THE CLEAN WATER ACT, AS AMENDED (33 U.S.C. 1251 ET SEQ.

SECTION 1342 AND 40 CFR PARTS 122, 123, 124 AND 450). [MINN. R. 7090] "NATURAL BUFFER" MEANS AN AREA OF UNDISTURBED COVER SURROUNDING SURFACE WATERS WITHIN WHICH CONSTRUCTION ACTIVITIES ARE RESTRICTED. NATURAL BUFFER INCLUDES THE VEGETATION. EXPOSED ROCK. OR BARREN GROUND THAT EXISTS PRIOF

"NOTICE OF TERMINATION (NOT)" MEANS THE FORM (ELECTRONIC OR PAPER) REQUIRED FOR TERMINATING COVERAGE UNDER THE CONSTRUCTION GENERAL PERMIT. [MINN. R.

TO COMMENCEMENT OF EARTH-DISTURBING ACTIVITIES. [MINN. R. 7090]

"'OPERATOR" MEANS THE PERSON (USUALLY THE GENERAL CONTRACTOR), FIRM, GOVERNMENTAL AGENCY, OR OTHER ENTITY DESIGNATED BY THE OWNER WHO HAS DAY TO DAY OPERATIONAL CONTROL AND/OR THE ABILITY TO MODIFY PROJECT PLANS AND SPECIFICATIONS RELATED TO THE SWPPP. THE PERMIT APPLICATION MUST LIST THE OPERATOR AS A PERMITTEE. SUBCONTRACTORS HIRED BY AND UNDER SUPERVISION OF THE GENERAL CONTRACTOR ARE NOT OPERATORS. [MINN. R. 7090]

POSSESSING THE TITLE OF THE LAND ON WHICH THE CONSTRUCTION ACTIVITIES WILL OCCUR OR, IF THE CONSTRUCTION ACTIVITY IS FOR A LEASE, EASEMENT, OR MINERAL RIGHTS LICENSE HOLDER, THE PARTY OR INDIVIDUAL IDENTIFIED AS THE LEASE, EASEMENT OR MINERAL RIGHTS LICENSE HOLDER: OR THE CONTRACTING GOVERNMENT AGENCY RESPONSIBLE FOR THE CONSTRUCTION ACTIVITY. [MINN. R. 7090]

EROSIVE CONDITIONS, EXAMPLES INCLUDE: GRAVEL, CONCRETE, PERENNIAL COVER, OR OTHER LANDSCAPED MATERIAL THAT WILL PERMANENTLY ARREST SOIL EROSION. PERMITTEES MUST ESTABLISH A UNIFORM PERENNIAL VEGETATIVE COVER (I.E., EVENLY DISTRIBUTED, WITHOUT LARGE BARE AREAS) WITH A DENSITY OF 70 PERCENT OF THE NATIVE BACKGROUND VEGETATIVE COVER ON ALL AREAS NOT COVERED BY PERMANENT STRUCTURES, OR EQUIVALENT PERMANENT STABILIZATION MEASURES, PERMANENT COVER DOES NOT INCLUDE TEMPORARY BMPS SUCH AS WOOD FIBER BLANKET, MULCH, AND ROLLED EROSION CONTROL PRODUCTS. [MINN. R. 7090]

IDENTIFIED AS THE OWNER AND OPERATOR ON THE APPLICATION SUBMITTED TO THE

"PROJECT(S)" MEANS ALL CONSTRUCTION ACTIVITY PLANNED AND/OR CONDUCTED UNDER A PARTICULAR PERMIT. THE PROJECT OCCURS ON THE SITE OR SITES DESCRIBED IN THE PERMIT APPLICATION, THE SWPPP AND IN THE ASSOCIATED PLANS, SPECIFICATIONS AND

"PUBLIC WATERS" MEANS ALL WATER BASINS AND WATERCOURSES DESCRIBED IN MINN.

"SEDIMENT CONTROL" MEANS METHODS EMPLOYED TO PREVENT SUSPENDED SEDIMENT IN STORMWATER FROM LEAVING THE SITE (E.G. SILT FENCES, COMPOST LOGS AND STORM DRAIN INLET PROTECTION). [MINN. R. 7090]

BEEN COVERED BY APPROPRIATE MATERIALS SUCH AS MULCH, STAKED SOD, RIPRAP, EROSION CONTROL BLANKET, MATS OR OTHER MATERIAL THAT PREVENTS EROSION FROM OCCURRING. GRASS SEEDING, AGRICULTURAL CROP SEEDING OR OTHER SEEDING ALONE IS NOT STABILIZATION. MULCH MATERIALS MUST ACHIEVE APPROXIMATELY 90 PERCENT

"STORMWATER" MEANS PRECIPITATION RUNOFF, STORMWATER RUNOFF, SNOWMELT RUNOFF, AND ANY OTHER SURFACE RUNOFF AND DRAINAGE. [MINN. R. 7090]

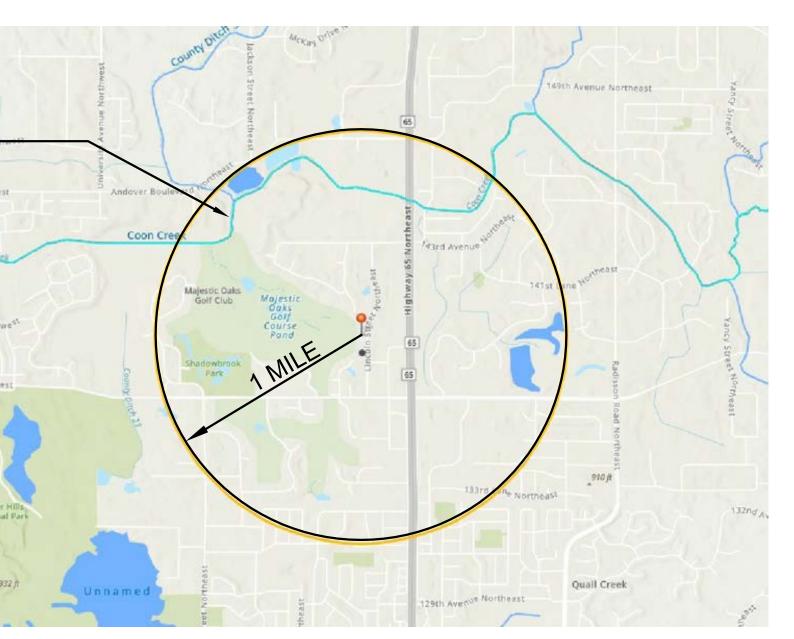
"STORM WATER POLLUTION PREVENTION PLAN (SWPPP)" MEANS A PLAN FOR STORMWATER DISCHARGE THAT INCLUDES ALL REQUIRED CONTENT UNDER IN SECTION 5 THAT DESCRIBES THE EROSION PREVENTION. SEDIMENT CONTROL AND WASTE CONTROL BMPS AND PERMANENT STORMWATER TREATMENT SYSTEMS. [MINN. R. 7090]

"WATERS OF THE STATE" (AS DEFINED IN MINN. STAT. SECT. 115.01, SUBP. 22) MEANS ALL STREAMS, LAKES, PONDS, MARSHES, WATERCOURSES, WATERWAYS, WELLS, SPRINGS, RESERVOIRS, AQUIFERS, IRRIGATION SYSTEMS, DRAINAGE SYSTEMS AND ALL OTHER BODIES OR ACCUMULATIONS OF WATER, SURFACE OR UNDERGROUND, NATURAL OR ARTIFICIAL, PUBLIC OR PRIVATE, WHICH ARE CONTAINED WITHIN, FLOW THROUGH, OR BORDER UPON THE STATE OR ANY PORTION THEREOF. [MINN. STAT. 115.01, SUBP. 22] "WATER QUALITY VOLUME" MEANS ONE (1) INCH OF RUNOFF FROM THE NET INCREASE IN IMPERVIOUS SURFACES CREATED BY THE PROJECT (CALCULATED AS AN INSTANTANEOUS VOLUME), [MINN, R. 7090]

FREQUENCY AND DURATION SUFFICIENT TO SUPPORT A PREVALENCE OF HYDROPHYTIC VEGETATION TYPICALLY ADAPTED FOR LIFE IN A SATURATED SOIL

[MINN. R. 7050.0186, SUBP. 1A.B]

MAP OF SURFACE WATERS



"OWNER" MEANS THE PERSON, FIRM, GOVERNMENTAL AGENCY, OR OTHER ENTITY

"PERMANENT COVER" MEANS SURFACE TYPES THAT WILL PREVENT SOIL FAILURE UNDER

"PERMITTEES" MEANS THE PERSONS, FIRM, GOVERNMENTAL AGENCY, OR OTHER ENTITY MPCA AND ARE RESPONSIBLE FOR COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT, [MINN, R. 7090]

CONTRACT DOCUMENTS, [MINN, R. 7090]

STAT. SECT. 103G.005 SUBP. 15. [MINN. R. 7090]

"STABILIZE", "STABILIZED", "STABILIZATION" MEANS THE EXPOSED GROUND SURFACE HAS GROUND COVERAGE (TYPICALLY 2 TON/ACRE). [MINN. R. 7090]

"STEEP SLOPES" MEANS SLOPES THAT ARE 1:3 (V:H) (33.3 PERCENT) OR STEEPER IN GRADE. [MINN. R. 7090]

"SURFACE WATER OR WATERS" MEANS ALL STREAMS, LAKES, PONDS, MARSHES, WETLANDS, RESERVOIRS, SPRINGS, RIVERS, DRAINAGE SYSTEMS, WATERWAYS, WATERCOURSES, AND IRRIGATION SYSTEMS WHETHER NATURAL OR ARTIFICIAL, PUBLIC OR PRIVATE, EXCEPT THAT SURFACE WATERS DO NOT INCLUDE STORMWATER TREATMENT SYSTEMS CONSTRUCTED FROM UPLAND. THIS PERMIT DOES NOT CONSIDER STORMWATER TREATMENT SYSTEMS CONSTRUCTED IN WETLANDS AND MITIGATED IN ACCORDANCE WITH SECTION 22 AS SURFACE WATERS. [MINN. R. 7090]

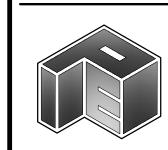
"WETLANDS" (AS DEFINED IN MINN. R. 7050.0186, SUBP. 1A.B.) MEANS THOSE AREAS THAT ARE INUNDATED OR SATURATED BY SURFACE WATER OR GROUNDWATER AT A FREQUENCY AND DURATION SUFFICIENT TO SUPPORT. AND UNDER NORMAL CIRCUMSTANCES DO SUPPORT. A PREVALENCE OF VEGETATION TYPICALLY ADAPTED FOR LIFE IN SATURATED SOIL CONDITIONS, WETLANDS GENERALLY INCLUDE SWAMPS. MARSHES, BOGS, AND SIMILAR AREAS. CONSTRUCTED WETLANDS DESIGNED FOR WASTEWATER TREATMENT ARE NOT WATERS OF THE STATE. WETLANDS MUST HAVE THE FOLLOWING ATTRIBUTES:

1. A PREDOMINANCE OF HYDRIC SOILS; AND

2. INUNDATED OR SATURATED BY SURFACE WATER OR GROUNDWATER AT A CONDITION; AND

3. UNDER NORMAL CIRCUMSTANCES SUPPORT A PREVALENCE OF SUCH VEGETATION

PREPARED FOR: **GLEN HARSTAD**



DRAWN BY:

M.Q.A.

CHCKD BY:

M.Q.A.

ORIGINAL DATE:

MAY 3, 2024

DESIGN BY

Q.M.A.

PROJ. NO.

24-2141

& ENGINEERING 6776 LAKE DRIVE

PHONE: (651) 361-8210 FAX: (651) 361-8701

LINO LAKES, MN 55014

STORM WATER POLLUTION PREVENTION PLAN CLASSIFICATION PLAN COMMERCIAL BUILDING



Permit Application Review Report Date: 6/12/2024

Board Meeting Date: 6/17/2024

Agenda Item: 8

Applicant/Landowner: City of Fridley Attn: Nic Schmidt 7071 University Avenue NE Fridley, MN 55432

Project Name: 2024 Neighborhood Parks Improvements (Logan Park)

Project PAN: P-24-023

Project Purpose: Park reconstruction including curb & walkways, sport court, fencing and various

site amenities.

Project Location: 155 Logan Parkway NE, City of Fridley

Site Size: size of parcel - 2.72 acres; size of disturbed area - 0.75 acres; size of regulated impervious

surface - 0.15

Applicable District Rule(s): Rule 2, Rule 3, Rule 4

Recommendation: Approve with 2 Conditions and 0 Stipulations

Description: The City of Fridley is proposing various park improvements including new grading, curb and sidewalks, sport courts and other site amenities at Logan Park. The project will disturb 0.75 acres and create 0.15 acres of regulated impervious. The project is within the Oak Glen Creek Subwatershed. However, the site drains to City storm sewer and then to the Mississippi River. The relevant water resource concerns are stormwater management and erosion and sediment control which correlate to District Rules 3 and 4. See attached Figure 1: Project Location and Figure 2: Site Plan.

Conditions to be Met Before Permit Issuance:

Rule 2.7 – Procedural Requirements

1. Submittal of a performance escrow in the amount of \$2,375.00.

Rule 4.0 – Soils and Erosion Control

2. Update the erosion and sediment control plan to stabilize soils and soil stockpiles within 7 days of inactivity.

Stipulations: The permit will be issued with the following stipulations as conditions of the permit.

By accepting the permit, the applicant agrees to these stipulations:

Exhibits:

Exhibit Type	Exhibit Author	Signature Date	Received Date
Erosion & Sediment Control Plan	City of Fridley	03/28/2024	05/09/2024
MIDS Calculations	City of Fridley	04/22/2024	04/25/2024
Narrative	City of Fridley	05/21/2024	05/21/2024
Construction Plans	City of Fridley	03/28/2024	04/25/2024

Findings

Fees and Escrows (Rule 2.7):

The applicant is a government agency and is therefore exempt from an application fee or a review and inspection fee deposit. The applicant will be required to submit a performance escrow in the amount of \$2,375.00. This corresponds to a base escrow of \$2,000, plus an additional \$500/acre of disturbance (0.75 acres of land disturbance proposed).

Stormwater Management (Rule 3.0):

Rule 3.0 applies to the proposed project because it includes land disturbing activity that creates 5000 sf or more of new or fully reconstructed impervious surface for (non-residential/multifamily residential) development within one mile of and draining to an impaired water.

The Hydrologic Soil Group (HSG) of soils on site are HSG A.

<u>Rate Control</u>: Stormwater flow rate was not calculated as a part of this project. Any rate increase would be absorbed by City storm sewer which is routed directly to the Mississippi River. The City has approved this potential increase.

<u>Volume Control</u>: The proposed project is new development; therefore, the volume reduction requirement is equal to 1.1 inches over the area of all impervious surface. The amount of proposed impervious required to be treated is 6,534 ft².

The applicant is proposing the Stormwater Management Practices (SMPs) described below:

Drainage Area	Impervious required to be treated (ft²)	Proposed SMP	TP Removal Factor	Required Water Quality Volume (ft³)	Water Quality Volume Provided (ft³)
Logan Pkwy	6,534	disconnected impervious	1	598	599
Totals:	6,534			598	599

Table 2.

The volume control standard has been met as shown in Table 2.

Water Quality: The total Water Quality Volume has been provided in aggregate.

Stormwater treatment on site must remove at least 80% of the average annual post development TSS per discharge location. The following TSS removal has been provided:

Discharge Point	TSS Removal Provided
Logan Pkwy	92

Table 3.

The TSS removal standard is met at each discharge point as shown in Table 3.

<u>Discharges to Wetlands</u>: Stormwater from the proposed project is not being discharged into any wetlands, therefore this section does not apply.

<u>Landlocked Basins</u>: The proposed drainage system does not outlet to a landlocked basin, therefore this section does not apply.

<u>Low Floor Freeboard</u>: The proposed project is not considered new development with buildings and habitable structures; therefore, this section does not apply.

Maintenance:

Access: Sufficient maintenance access has been provided on the plans for all stormwater management practices.

Soils and Erosion Control (Rule 4.0)

Rule 4.0 applies to the proposed project because it is a land disturbing activity that requires a permit under another District rule.

The proposed project drains to the Mississippi River. The soils affected by the project include Urban Zimmerman and do not have a soil erodibility factor of 0.15 or greater. Disturbed areas are not proposed to be stabilized within 7 days, as required. The proposed erosion and sediment control plan includes perimeter control, construction exit, inlet protection, and street sweeping. The erosion control plan does not meet District requirements because soils and soil stockpiles are not proposed to be stabilized within 7 days of inactivity. See attached Figure 3: Erosion and Sediment Control Plan.

Wetlands (Rule 5.0)

The proposed project does not include activities which result in the filling, draining, excavating, or otherwise altering the hydrology of a wetland. Rule 5.0 does not apply.

Floodplain (Rule 6.0)

The proposed project does not include land disturbing activities within the floodplain as mapped and modeled by the District. Rule 6.0 does not apply.

Drainage, Bridges, Culverts, and Utility Crossings (Rule 7.0)

The proposed project does not include land disturbing activities which construct, improve, repair, or alter the hydraulic characteristics of a bridge profile control or culvert structure on a creek, public ditch, or major watercourse. The proposed project does not include land disturbing activities which involve a pipeline or utility crossing of a creek, public ditch, or major watercourse.

The proposed project does not include land disturbing activities which construct, improve, repair or alter the hydraulic characteristics of a conveyance system that extends across two or more parcels of record not under common ownership and has a drainage area of 200 acres or greater. Rule 7.0 does not apply.

Buffers (Rule 8.0)

The proposed project does not include a land disturbing activity on land adjacent or directly contributing to a Public Water, Additional Waters, High or Outstanding Ecological Value Waters, a Public Ditch, or Impaired Waters/waters exceeding state water quality standards. Rule 8.0 does not apply.

Variances (Rule 10.2)

The proposed project is not requesting a variance from the District's rules, regulations, and policies. Rule 1 0.2 does not apply.

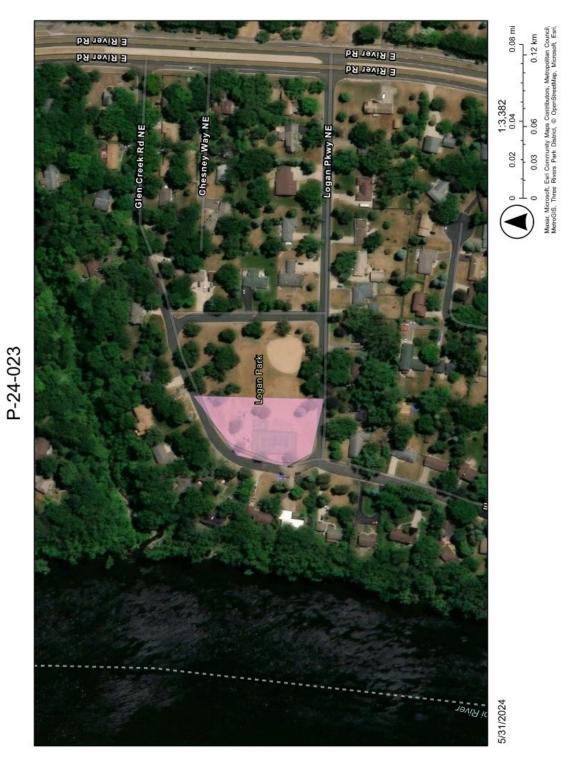


Figure 1: Project Location

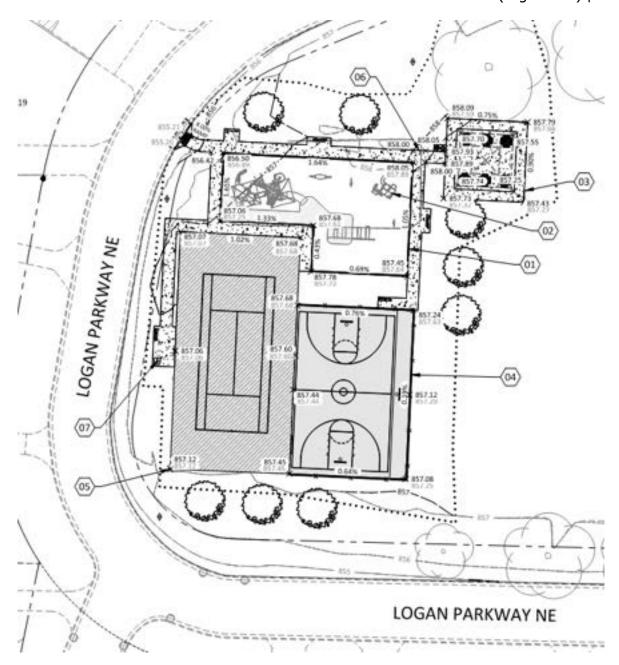


Figure 2: Site Plan

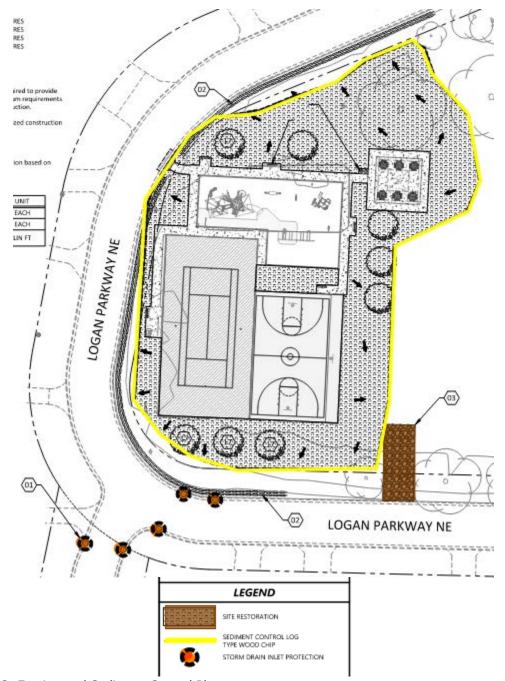


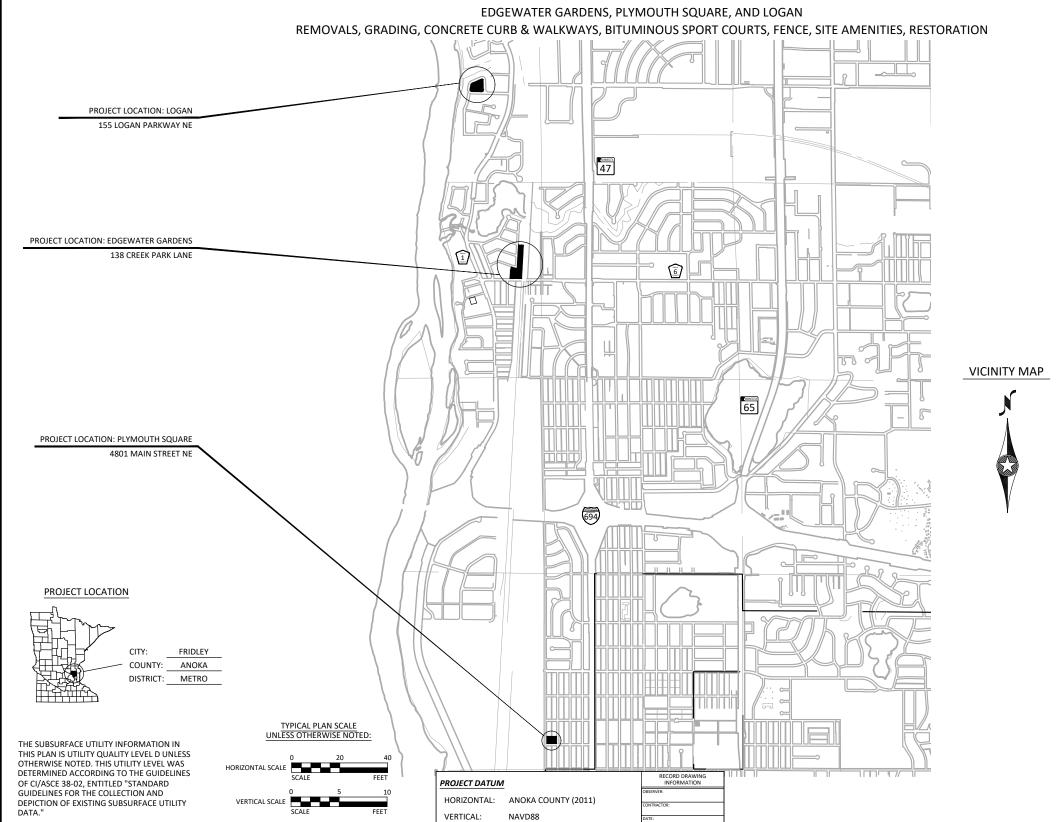
Figure 3: Erosion and Sediment Control Plan

CITY OF FRIDLEY

CONSTRUCTION PLANS FOR

2024 NEIGHBORHOOD PARKS IMPROVEMENTS

CITY PROJECT NO. 24-70457



--- GOVERNING SPECIFICATIONS ---THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION

"STANDARD SPECIFICATION FOR CONSTRUCTION" SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM AND BE INSTALLED IN ACCORDANCE WITH THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD) AND PART VI, "FIELD MANUAL" FOR TEMPORARY TRAFFIC CONTROL DEVICES.

SHEET NUMBER	SHEET TITLE
GENERAL	
1	TITLE SHEET
2	LEGEND
3	GENERAL NOTES
4	STATEMENT OF ESTIMATED QUANTITIES
CIVIL	
5-6	EDGEWATER GARDENS - EXISTING CONDITIONS AND REMOVALS PLAN
7	EDGEWATER GARDENS - GRADING PLAN
8	EDGEWATER GARDENS - SITE PLAN
9	PLYMOUTH SQUARE - EXISTING CONDITIONS AND REMOVALS PLAN
10	PLYMOUTH SQUARE - GRADING PLAN
11	PLYMOUTH SQUARE - SITE PLAN
12	LOGAN - EXISTING CONDITIONS AND REMOVALS PLAN
13	LOGAN - GRADING PLAN
14	LOGAN - SITE PLAN
15-21	ENLARGED PLANS AND DETAILS
22	STANDARD PLANS AND DETAIL PLATES

THIS PLAN SET CONTAINS 22 SHEETS.

Brandon J. Brodhag, P.E.

Design Engineer: I hereby certify that this plan was prepared by me or under my direct supervision, and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

03/28/2024

License Number __

59297

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OF

22



7071 University Avenue NE Fridley, MN 55432

	NRS		
_	DRAWN		
E	JBQ		
	CHECKED	-	
	BJB		
	CLIENT PROJ. NO.		

NEIGHBORHOOD PARKS IMPROVEMENTS PROJECT NO. 24-70457 TITLE SHEET

EXIS	TING TOPOGRAPHIC SYMBOLS			SURVEY SYMBOLS	
AC &	ACCESS GRATE AIR CONDITION UNIT ANTENNA AUTO SPRINKLER CONNECTION	(S16)	REGULATION STATION GAS SATELLITE DISH SIGN TRAFFIC SIGNAL CONTROL CABINET	 ⇒ BENCH MARK LOCATION △ CONTROL POINT • MONUMENT IRON FOUND 	
	BARRICADE PERMANENT	SIG	SOIL BORING		
	BASKETBALL POST	L	SIREN	EXISTING TOPOGRAPHIC LINES	
=	BENCH		TELEPHONE BOOTH		
 B	BIRD FEEDER		TILE INLET		RETAINING WALL FENCE
®		■ TILE	TILE OUTLET		FENCE-DECORATIVE
	BOLLARD BUSH	⊕ TILE	TILE GOTTET		GUARD RAIL
© 	CATCH BASIN RECTANGULAR CASTING	TRAN	TRANSFORMER-ELECTRIC	· · · · · · · · · · · · · · · · · · ·	TREE LINE BUSH LINE
0	CATCH BASIN CIRCULAR CASTING	*	TREE-CONIFEROUS		
8	CURB STOP	*	TREE-DEAD	SURVEY LINES	
©	CLEAN OUT	φ (Ω)	TREE-DECIDUOUS		CONTROLLED ACCESS
• CLVT	CULVERT END	R	TREE STUMP		BOUNDARY
G	DRINKING FOUNTAIN		TRAFFIC ARM BARRIER		CENTERLINE EXISTING EASEMENT LINE
D	DOWN SPOUT	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ 			PROPOSED EASEMENT LINE
(Ē)	FILL PIPE	OTRASH	TRASH CAN		EXISTING LOT LINE
-ф-	FIRE HYDRANT	TRASH	UTILITY MARKER		PROPOSED LOT LINE
~	FLAG POLE	⊠	VALVE		EXISTING RIGHT-OF-WAY PROPOSED RIGHT-OF-WAY
⊳	FLARED END / APRON	PIV	VALVE POST INDICATOR		SETBACK LINE
	FUEL PUMP		VALVE VAULT		SECTION LINE
<u> </u>	GRILL	V	VENT PIPE		QUARTER LINE SIXTEENTH LINE
\leftarrow	GUY WIRE ANCHOR	₹	WATER SPIGOT		TEMPORARY EASEMENT
Н	HANDHOLE		WELL	EXISTING UTILITY LINES	
Ł	HANDICAP SPACE	Δ	WETLAND DELINEATED MARKER		FORCEMAIN
展	IRRIGATION SPRINKLER HEAD	址	WETLAND		SANITARY SEWER
IVB	IRRIGATION VALVE BOX	ww	WET WELL	$\rightarrow \rightarrow $	SANITARY SERVICE
CP	LIFT STATION CONTROL PANEL	6	YARD HYDRANT		STORM SEWER STORM SEWER DRAIN TILE
LS	LIFT STATION			——————————————————————————————————————	WATERMAIN WATERMAIN
*	LIGHT ON POLE	PROPOSE	ED TOPOGRAPHIC SYMBOLS		WATER SERVICE
ᄽ	LIGHT-GROUND	•	CLEANOUT	PROPOSED UTILITY LINES	
	MAILBOX	•	MANHOLE		
©	MANHOLE-COMMUNICATION	•	LIFT STATION		FORCEMAIN SANITARY SEWER
E	MANHOLE-ELECTRIC	•	STORM SEWER CIRCULAR CASTING	$\rightarrow \rightarrow $	SANITARY SERVICE
G	MANHOLE-GAS	•	STORM SEWER RECTANGULAR CASTING		STORM SEWER
\oplus	MANHOLE-HEAT	-	STORM SEWER FLARED END / APRON	->	STORM SEWER DRAIN TILE
(\$)	MANHOLE-SANITARY SEWER		STORM SEWER OUTLET STRUCTURE		WATERMAIN WATER SERVICE
(D)	MANHOLE-STORM SEWER	•	STORM SEWER OVERFLOW STRUCTURE	- {// */ /// */ /// */ /// */ /// */	PIPE CASING
(1)	MANHOLE-UTILITY	0	CURB BOX	GRADING INFORMATION	
W	MANHOLE-WATER	\$	FIRE HYDRANT	GRADING IN ORIVIATION	
M	METER	H	WATER VALVE	existing contou	IR MINOR
	ORDER MICROPHONE	•	WATER REDUCER	950 EXISTING CONTOL	
	PARKING METER	Þ	WATER BEND	952 PROPOSED CONTO	
	PAVEMENT MARKING	西	WATER TEE	950 PROPOSED CONTO	OUR MAJOR ING LIMITS / SLOPE LIMITS
C	PEDESTAL-COMMUNICATION	⊕	WATER CROSS	× 953.53 × STA:5+67.19 980.87 PROPOSED SPOT I	
E	PEDESTAL-ELECTRIC	=	WATER SLEEVE	1:4 RISE:RUN (SLOPE)	
오	PEDESTRIAN PUSH BUTTON	П 89	WATER CAP / PLUG	HATCH PATTERNS	
	PICNIC TABLE	***************************************	RIP RAP	BITUMINOUS	
Ø	POLE-UTILITY	→	DRAINAGE FLOW		GRAVEL
© W	POST	Þ٢	TRAFFIC SIGNS	CONCRETE	
**	RAILROAD SIGNAL POLE				
			Know what's belo	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL BROINER THE LAWS OF THE STATE OF MINNESOTA. BRANDON J. BRODHAG	7071 University Avenue NE Fridley, MN 55432

EXISTING PRIVATE UTILITY LINES

EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY GOPHER STATE ONE CALL, 1-800-252-1166 OR

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D UNLESS OTHERWISE NOTED. THIS UTILITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA"

— F — F — F — — F	UNDERGROUND FIBER OPTIC
—— E —— E —— E ——	UNDERGROUND ELECTRIC
—— G —— G —— G ——	UNDERGROUND GAS
c c c	UNDERGROUND COMMUNICATION
OE OE	OVERHEAD ELECTRIC
oc oc	OVERHEAD COMMUNICATION
ou ou	OVERHEAD UTILITY

UTILITIES IDENTIFIED WITH A QUALITY LEVEL:

LINE TYPES FOLLOW THE FORMAT: UTILITY TYPE - QUALITY LEVEL EXAMPLE: GA UNDERGROUND GAS, QUALITY LEVEL A UTILITY QUALITY LEVEL (A,B,C,D) DEFINITIONS CAN BE FOUND IN CI/ASCE 38-02.

UTILITY QUALITY LEVELS:

QUALITY LEVEL D: PROVIDES THE MOST BASIC LEVEL OF INFORMATION. IT INVOLVES COLLECTING DATA FROM EXISTING UTILITY RECORDS. RECORDS MAY INCLUDE AS-BUILT DRAWINGS, DISTRIBUTION AND SERVICES MAPS, EXISTING GEOGRAPHIC INFORMATION SYSTEM DATABASES, CONSTRUCTION PLANS, ETC.

QUALITY LEVEL C: INVOLVES SURVEYING VISIBLE SUBSURFACE UTILITY STRUCTURES SUCH AS MANHOLES, HAND-HOLES, UTILITY VALVES AND METERS, FIRE HYDRANTS, PEDESTALS AND UTILITY MARKERS, AND THEN CORRELATING THE INFORMATION WITH EXISTING UTILITY RECORDS TO CREATE COMPOSITE DRAWINGS. INCLUDES QUALITY LEVEL D ACTIVITIES.

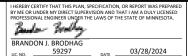
QUALITY LEVEL B: INVOLVES DESIGNATING THE HORIZONTAL POSITION OF SUBSURFACE UTILITIES THROUGH SURFACE DETECTION METHODS AND COLLECTING THE INFORMATION THROUGH A SURVEY METHOD. INCLUDES QUALITY LEVEL C AND D TASKS.

QUALITY LEVEL A: PROVIDES THE HIGHEST LEVEL OF ACCURACY. IT INVOLVES LOCATING OR POTHOLING UTILITIES AS WELL AS ACTIVITIES IN QUALITY LEVELS B, C, AND D. THE LOCATED FACILITY INFORMATION IS SURVEYED AND MAPPED AND THE DATA PROVIDES PRECISE PLAN AND

ABBREVIATIONS

ADJ ADJUST GU GUTTER RT RIGHT ALT ALTERNATE GV GATE VALVE SAN SANITARY SEWER B-B BACK TO BACK HDPE HIGH DENSITY POLYETHYLENE SCH SCHEDULE BIT BITUMINOUS HH HANDHOLE SERV SERVICE BLDG BUILDING HP HIGH POINT SHLD SHOULDER BMP BEST MANAGEMENT PRACTICE HWL HIGH WATER LEVEL STA STATION	
B-B BACK TO BACK HDPE HIGH DENSITY POLYETHYLENE SCH SCHEDULE BIT BITUMINOUS HH HANDHOLE SERV SERVICE BLDG BUILDING HP HIGH POINT SHLD SHOULDER BMP BEST MANAGEMENT PRACTICE HWL HIGH WATER LEVEL STA STATION	
BIT BITUMINOUS HH HANDHOLE SERV SERVICE BLDG BUILDING HP HIGH POINT SHLD SHOULDER BMP BEST MANAGEMENT PRACTICE HWL HIGH WATER LEVEL STA STATION	
BLDG BUILDING HP HIGH POINT SHLD SHOULDER BMP BEST MANAGEMENT PRACTICE HWL HIGH WATER LEVEL STA STATION	
BMP BEST MANAGEMENT PRACTICE HWL HIGH WATER LEVEL STA STATION	
DE DECINIDADUS UND UNDOANT	
BR BEGIN RADIUS HYD HYDRANT STD STANDARD	
BV BUTTERFLY VALVE I INVERT STM STORM SEWER	
CB CATCH BASIN K CURVE COEFFICIENT TC TOP OF CURB	
C&G CURB AND GUTTER L LENGTH TE TEMPORARY EASEMENT	
CIP CAST IRON PIPE LO LOWEST OPENING TEMP TEMPORARY	
CIPP CURED-IN-PLACE PIPE LP LOW POINT TNH TOP NUT HYDRANT	
CL CENTER LINE LT LEFT TP TOP OF PIPE	
CL. CLASS MAX MAXIMUM TYP TYPICAL	
CLVT CULVERT MH MANHOLE VCP VITRIFIED CLAY PIPE	
CMP CORRUGATED METAL PIPE MIN MINIMUM VERT VERTICAL	
C.O. CHANGE ORDER MR MID RADIUS VPC VERTICAL POINT OF CUR	٧E
COMM COMMUNICATION NIC NOT IN CONTRACT VPI VERTICAL POINT OF INTE	RSECTIO
CON CONCRETE NMC NON-METALLIC CONDUIT VPT VERTICAL POINT OF TAN	GENT
CSP CORRUGATED STEEL PIPE NTS NOT TO SCALE WM WATERMAIN	
DIA DIAMETER NWL NORMAL WATER LEVEL	
DIP DUCTILE IRON PIPE OHW ORDINARY HIGH WATER LEVEL	
DWY DRIVEWAY PC POINT OF CURVE AC ACRES	
E EXTERNAL CURVE DISTANCE PCC POINT OF COMPOUND CURVE CF CUBIC FEET	
ELEC ELECTRIC PE PERMANENT EASEMENT CV COMPACTED VOLUME	
ELEV ELEVATION PED PEDESTRIAN, PEDESTAL CY CUBIC YARD	
EOF EMERGENCY OVERFLOW PERF PERFORATED PIPE EA EACH	
ER END RADIUS PERM PERMANENT EV EXCAVATED VOLUME	
ESMT EASEMENT PI POINT OF INTERSECTION LB POUND	
EX EXISTING PL PROPERTY LINE LF LINEAR FEET	
FES FLARED END SECTION PRC POINT OF REVERSE CURVE LS LUMP SUM	
F-F FACE TO FACE PT POINT OF TANGENT LV LOOSE VOLUME	
FF FINISHED FLOOR PVC POLYVINYL CHLORIDE PIPE SF SQUARE FEET	
F&I FURNISH AND INSTALL PVMT PAVEMENT SV STOCKPILE VOLUME	
FM FORCEMAIN R RADIUS SY SQUARE YARD	
FO FIBER OPTIC R/W RIGHT-OF-WAY	
F.O. FIELD ORDER RCP REINFORCED CONCRETE PIPE	
GRAN GRANULAR RET RETAINING	







7071 University Avenue NE	DRAWI
Fridley, MN 55432	CHECK

DESIGNED	NO.	ISSUED FOR	DATE		
NRS				NEIGHBORHOOD PARKS IMPROVEMENTS	SHEET
DRAWN				NEIGHBORHOOD I / KIKS IIVII KOVEIVIEN IS) 🤈
JBQ	\vdash			DD0/FCT NO. 24 704F7	1 -
CHECKED	┺			PROJECT NO. 24-70457	OF
BJB					01
CLIENT PROJ. NO.	1			LEGEND	22
CELETT I NOZ. NO.				EEGEND	22

CONTRACT ADMINISTRATION

- 1. The Contractor shall notify the engineer in writing 48 hours prior to commencing work on any project item. Notification shall be given per project and per item.
- 2. The Contractor shall provide names and contact information of the Project Manager, Superintendent and Twenty-four Hour Emergency Response contact assigned to the project prior to commencing work.
- 3. The Superintendent shall be on site during all utility installation, reclaim, and paving operations
- 4. If the Superintendent leaves the site, The Contractor shall designate a responsible representative capable of being on site within one-hour, contact information of the representative shall be provided to the Inspector 48 hours prior to Superintendent leaving site.
- 5. A Project Schedule showing project phasing, intermediate project deadlines, anticipated substantial completion and final completion shall be submitted by the Contractor at the Pre-Construction meeting.
- 6. The Project Manager and Superintendent shall schedule and attend a meeting once a week in the office of the City Engineer to discuss project schedule, progress, and issues.
- 7. A report of work completed the previous week, work scheduled to be completed the current week, and any change to the overall schedule or cost shall be submitted at each weekly project meeting. See Specifications.
- 8. All work shall conform with local ordinances, laws and rules.

PROJECT REPRESENTATIVE: NIC SCHMIDT, Engineering 763-572-3556

HOURS OF OPERATION

1. Hours of work are limited to 7:00 am to 7:00 pm Monday through Friday, and 9:00 am to 7:00 pm on Saturdays, unless otherwise approved by the Engineer.

UTILITIES

- 1. The subsurface utility information in this plan is Utility Level "D". This Utility level was determined according to the guidelines of CI/ASCE 38-02, "Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data".
- 2. The contractor is responsible for locating and protecting all existing utilities. The Contractor shall arrange locates with Gopher State One Call prior to the start of any excavation. Below are contacts for the major utilities related to this project:

a.	Gopher State One Call	800-252-1166	Emergency Call 811
b.	Centerpoint Energy	612-321-5502	Emergency 888-944-4564
C.	Xcel Energy	612-630-4568	Emergency 800-895-1999
d.	Century Link	612-998-1920	

3. In the event of an emergency related to utilities on the project Call 811. In the event of an accident or personal injury Call 911. Upon control of the emergency situation, the contractor shall contact the City within one hour of the incident. A full detailed incident report must be submitted to the Project Engineer within seven (7) days of the event.

CITY OWNED WATER

- 1. No water service shut-downs will be allowed for longer than 96 hours unless approved by the Engineer. See Specifications.
- 2. Water service shut down requests must be submitted in writing 72 hours before the planned shutdown.
- 3. Water will be available from a hydrant identified by the Engineer for the project. A meter is available through the City of Fridley and a security deposit will be submitted by the Contractor. See Specifications.

STAGING

- 1. The City will assist in identifying potential staging sites upon request, the Contractor shall be responsible to negotiate the use of theses areas. See Specifications
- 2. The Contractor is responsible to propose a staging area for the work. No additional storage of equipment or materials will be allowed outside of city Right of Way.

NON-CITY OWNED FACILITIES

- 1. All non-City of Fridley manhole castings must be salvaged and replaced. Castings shall be adjusted to match the final road surface prior to paving the bituminous wear course.
- 2. Metropolitan Council may provide new castings for the MCES manhole structures. If new castings are not available at the time of paving, the existing castings will be replaced on each structure.

RESIDENTIAL NOTICES & SERVICES

- 1. The City will notify the residents of the start of work, and final completion. Coordination of all other notifications is the responsibility of the Contractor. See Specifications.
- 2. The Contractor shall notify residents, and City of Fridley Water Department, of water shut-offs or installation of temporary water service for their property at least 72 hours before the
- 3. The Contractor shall notify the residents of work scheduled in each phase of the project.
- 4. Prior to starting work on a block, the Contractor shall hand deliver a notice to each property stating the starting date of the work, the dates of closure of the street, the planned date for paving, and expected date of final completion in that area.
- 5. Any work that will prevent residents from reaching their driveway requires a minimum of 72 hours notice before the work begins.
- 6. It the contractor is to do any work outside of City Right of Way, the Contractor must obtain a written agreement with the property owner and submit agreement to The Engineer prior to the start of the work.
- 7. The Contractor shall provide access for mail delivery, garbage collection, and bus service. Any time this access will not be available, the Contractor will provide temporary facilities, and insure service to the residents.

- 8. If access to garbage and recycling trucks will not be available to an area, the Contractor shall move all waste containers to the nearest end of block before 7:00am, and return them to the respective property before the end of the day.
- 9. The Contractor will notify The Engineer immediately and respond to Resident complaints within one (1) hour of notification of the complaint. This will include access issues, damage to property, interruption of service, general questions, or others.

LANDSCAPING, TOPSOIL, EROSION CONTROL

- 1. The Contractor is responsible for protecting all trees and landscaping in the limits of construction, and of adjacent properties. Protection of landscaping shall be incidental to the
- 2. Any tree adjacent to the work requiring trimming to prevent damage to the tree will be done prior to the work, and will be incidental to the work.
- 3. All inlet protection and silt fence must be in place prior to the start of the work.
- 4. Restoration of all boulevards and other project areas must be completed within 7 days of cessation of work in the area, and prior to paving the wear course bituminous surface.

TRAFFIC CONTROL

- 1. The Contractor shall prepare a traffic control plan showing all signage for the project and detours required as a part of the project. The traffic control plan must be approved by the Engineer prior to any work in the project area.
- 2. The Contractor will be responsible for maintaining all traffic control during the project, and will be required to make changes if required.
- 3. All traffic control signage shall be removed within seven (7) days of completion of paving. See Specifications.

CONSTRUCTION STAKING

- 1. Staking The Agency will provide one set of construction stakes for utilities and curb at the discretion of the Engineer.
- 2. The Contractor must request staking a minimum of 48 hours in advance.
- 3. The Contractor will be responsible for protection of the stakes, and any re-staking if needed. See Specifications.



3

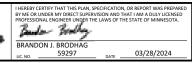
22

SEQ.	DESCRIPTION	UNITS	QTY
SCHED	ULE A - EDGEWATER GARDENS PARK		
1	MOBILIZATION	LUMP SUM	1
2	CLEAR & GRUB TREE (UP TO 24" DIA.)	EACH	5
3	CLEAR & GRUB TREE (GREATER THAN 24" DIA.)	EACH	1
4	SAWING BITUMINOUS PAVEMENT	LIN FT	79
5	REMOVE BYUMINOUS PAVEMENT	SQ YD	161
6	REMOVE SIDEWALK PAVEMENT	SQ YD	39
7	REMOVE CURB AND GUTTER	LIN FT	15
8	REMOVE FENCE	LF	50
9	REMOVE LANDSCAPING BLOCK	LIN FT	36
10	REMOVE PLAYGROUND ONTAINER CURB	LIN FT	365
11	REMOVE PLAYGROUND FILL 1 FT DEPTH	CU YD	223
12	REMOVE PLAYGROUND PIP SURFACE	SQ YD	28
13	REMOVE PLAYGROUND EQUIPMENT	LUMP SUM	1
14	REMOVE TRASH RECEPTACLE	EACH	2
15	REMOVE BENCH	EACH	2
16	REMOVE BASKETBALL GOAL	EACH	2
17	REMOVE TENNIS NET POST	EACH	2
18	SALVAGE SIGN	EACH	3
19	SITE GRADING	LUMP SUM	1
20	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	15
21	4" CONCRETE WALK & PADS	SQ FT	4,994
22	TRUNCATED DOMES	SQ FT	12
23	BASKETBALL COURT AND GOALS (COMPLETE)	LUMP SUM	1
24	MODIFY SPORT COURT (PICKLEBALL COMPLETE)	LUMP SUM	1
25	INSTALL OWNER-FURNISHED 18'X18' SHELTER INCL. FOOTINGS	LUMP SUM	1
26	INSTALL OWNER-FURNISHED PARK SIGN	EACH	1
27	INSTALL OWNER-FURNISHED PICNIC TABLE	EACH	4
28	INSTALL OWNER-FURNISHED BENCH	EACH	7
29	INSTALL OWNER-FURNISHED BIKE REPAIR STATION	EACH	1
30	INSTALL OWNER-FURNISHED BIKE RACK	EACH	2
31	FURNISH & INSTALL FENCE - 10 FT HIGH	LIN FT	232
32	FURNISH & INSTALL FENCE - 4 FT HIGH	LIN FT	38
33	INLET PROTECTION	EACH	3
34	SITE RESTORATION	LUMP SUM	1

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SEQ	DESCRIPTION	UNITS	QTY	
SCHEE	VLE B - PLYMOUTH SQUARE PARK			
35	MOBILIZATION	LUMP SUM	1	
36	CLEAR & GRUB TREE (UP TO 24" DIA.)	EACH	2	
37	SAWING BITUMINOUS PAVEMENT	LIN FT	41	
38	REMOVE BINUMINOUS PAVEMENT	SQ YD	216	
39	REMOVE SIDEWALK PAVEMENT	SQ YD	96	
40	REMOVE CURB AND GUTTER	LIN FT	33	
41	REMOVE FENCE	LIN FT	83	
42	REMOVE PLAYGROUND CONTAINER CURB	LIN FT	310	
43	REMOVE PLAYGROUND FILE- 1 FT DEPTH	CU YD	147	
44	REMOVE PLAYGROUND PIP SURFACE	SQ YD	10	
45	REMOVE PLAYGROUND EQUIPMENT	LUMP SUM	1	
46	REMOVE TRASH RECEPTACLE	EACH	1	
47	REMOVE BENCH	EACH	4	
48	REMOVE BASKETBALL GOAL	EACH	2	
49	SALVAGE SIGN	EACH	1	
50	SITE GRADING	LUMP SUM	1	
51	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	33	
52	4" CONCRETE WALK & PADS	SQ FT	3,066	
53	TRUNCATED DOMES	SQ FT	24	
54	BASKETBALL COURT AND GOALS (COMPLETE)	LUMP SUM	1	
55	PICKLEBALL COURT (COMPLETE)	LUMP SUM	1	
56	INSTALL OWNER-FURNISHED 18'X18' SHELTER INCL. FOOTINGS	LUMP SUM	1	
57	INSTALL OWNER-FURNISHED PARK SIGN	EACH	1	
58	INSTALL OWNER-FURNISHED PICNIC TABLE	EACH	4	
59	INSTALL OWNER-FURNISHED BENCH	EACH	6	
60	INSTALL OWNER-FURNISHED BIKE RACK	EACH	1	
61	FURNISH & INSTALL FENCE - 8 FT HIGH	LIN FT	198	
62	ORNAMENTAL FENCE	LIN FT	20	
63	INLET PROTECTION	EACH	11	
64	SITE RESTORATION	LUMP SUM	1	

SEQ.	DESCRIPTION	UNITS	QTY
SCHED	ULE C - LOGAN PARK		
65	MOBILIZATION	LUMP SUM	1
66	CLEAR & GRUB TREE (UP TO 24" DIA.)	EACH	9
67	SAWING BITUMINOUS PAVEMENT	LIN FT	127
68	REMOVE BITUMINOUS PAVEMENT	SQ YD	245
69	REMOVE SIDEWALK PAVEMENT	SQ YD	93
70	REMOVE CURB AND GUTTER	LIN FT	16
71	REMOVE PLAYGROUND CONTAINER CURB	LIN FT	250
72	REMOVE PLAYGROUND FILL - 1 FT DEPTH	CU YD	138
73	REMOVE PLAYGROUND PIP SURFACE	SQ YD	15
74	REMOVE PLAYGROUND EQUIPMENT	LUMP SUM	1
75	REMOVE TRASH RECEPTACLE	EACH	2
76	REMOVE BENCH	EACH	3
77	REMOVE BASKETBALL GOAL	EACH	1
78	SALVAGE SIGN	EACH	1
79	REMOVE SHELTER	LUMP SUM	1
80	SALVAGE GRILL	EACH	2
81	SITE GRADING	LUMP SUM	1
82	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	16
83	4" CONCRETE WALK & PADS	SQ FT	4,367
84	TRUNCATED DOMES	SQ FT	12
85	BASKETBALL COURT AND GOALS (COMPLETE)	LUMP SUM	1
86	MODIFY SPORT COURT (TENNIS COURT COMPLETE)	LUMP SUM	1
87	INSTALL OWNER-FURNISHED 30'X30' SHELTER INCL. FOOTINGS	LUMP SUM	1
88	INSTALL OWNER-FURNISHED PARK SIGN	EACH	1
89	INSTALL OWNER-FURNISHED PICNIC TABLE	EACH	6
90	INSTALL OWNER-FURNISHED BENCH	EACH	4
91	INSTALL OWNER-FURNISHED BIKE RACK	EACH	1
92	FURNISH & INSTALL FENCE - 10 FT HIGH	LIN FT	202
93	MODIFY FENCE	LUMP SUM	1
94	INLET PROTECTION	EACH	5
95	SITE RESTORATION	LUMP SUM	1

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7071 University Avenue NE Fridley, MN 55432

BASIS FOR ESTIMATED QUANTITIES

845/5 113 LBS/SQ/IN 105 L85/SQ/IN 3500 LBS/ACRE 300 LBS/ACRE

55 LBS/ACRE 180 UBS/ACRE

BID ITEM

TYPE SP WEARING & NON-WEARING COURSE MIX
AGGREGATE BASE CLASS 3

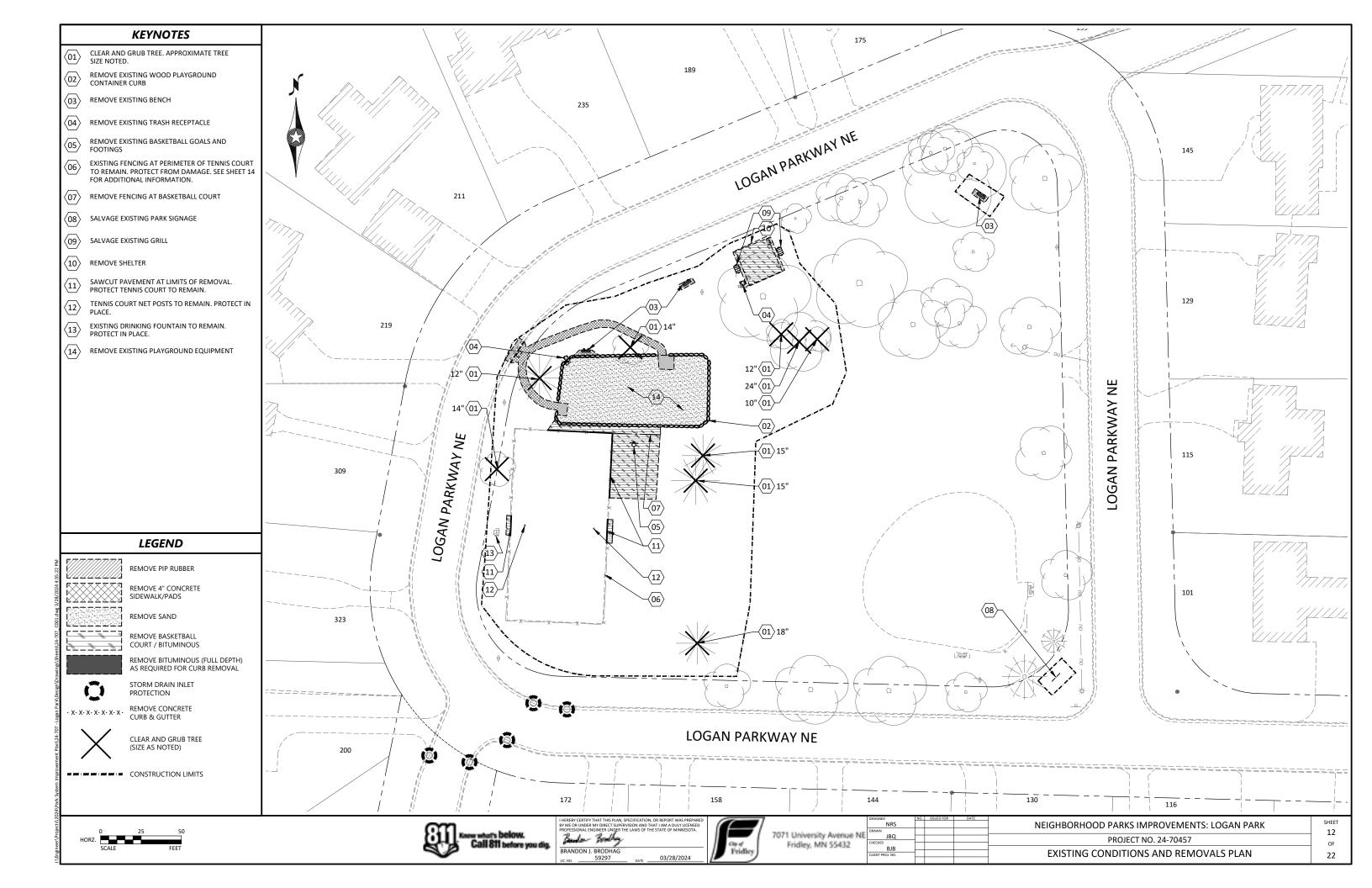
HYDRAULIC BONDED FIBER MATRIX
FERTILIZER TYPE 3

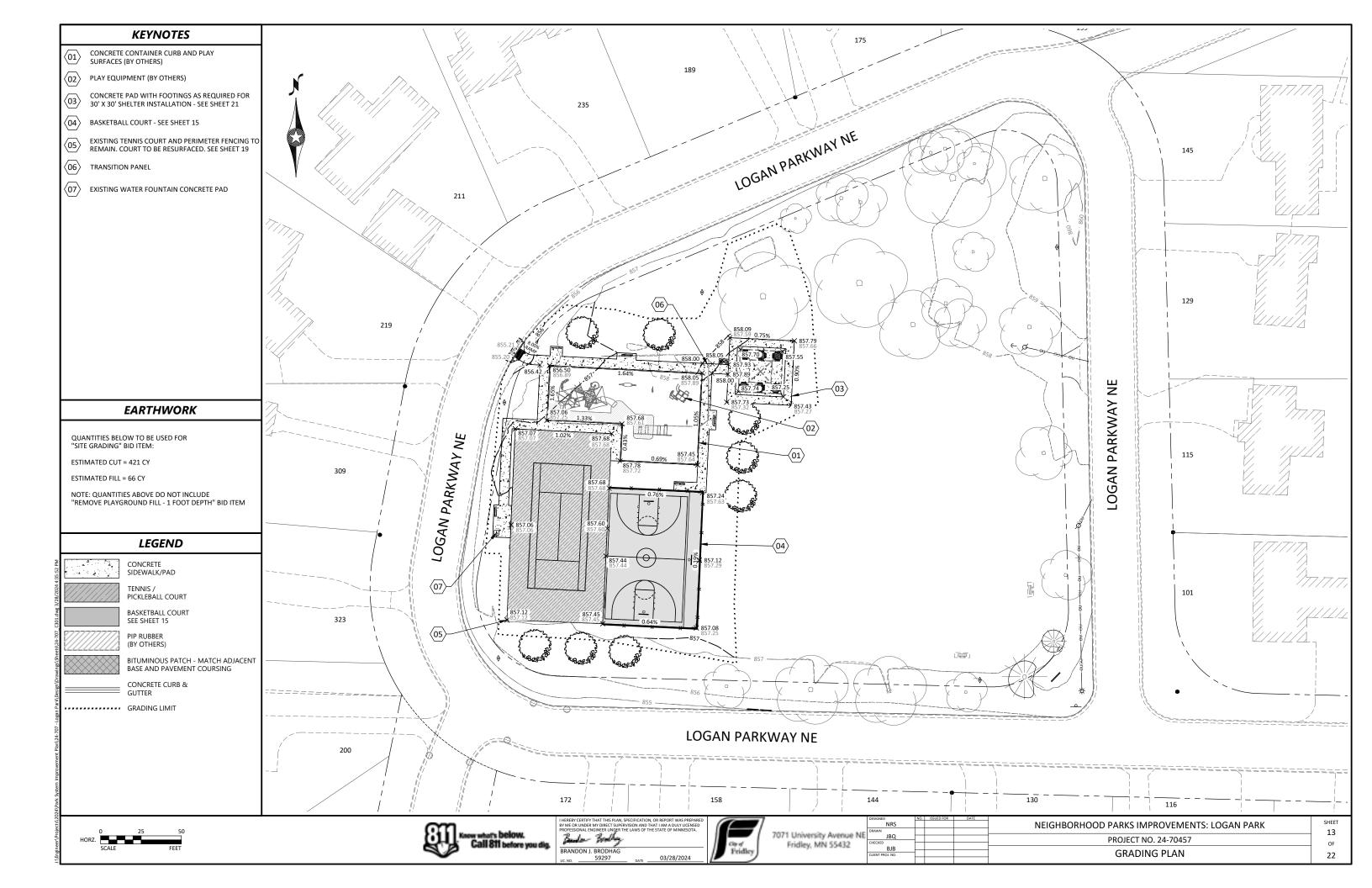
SEED MEX 35-241

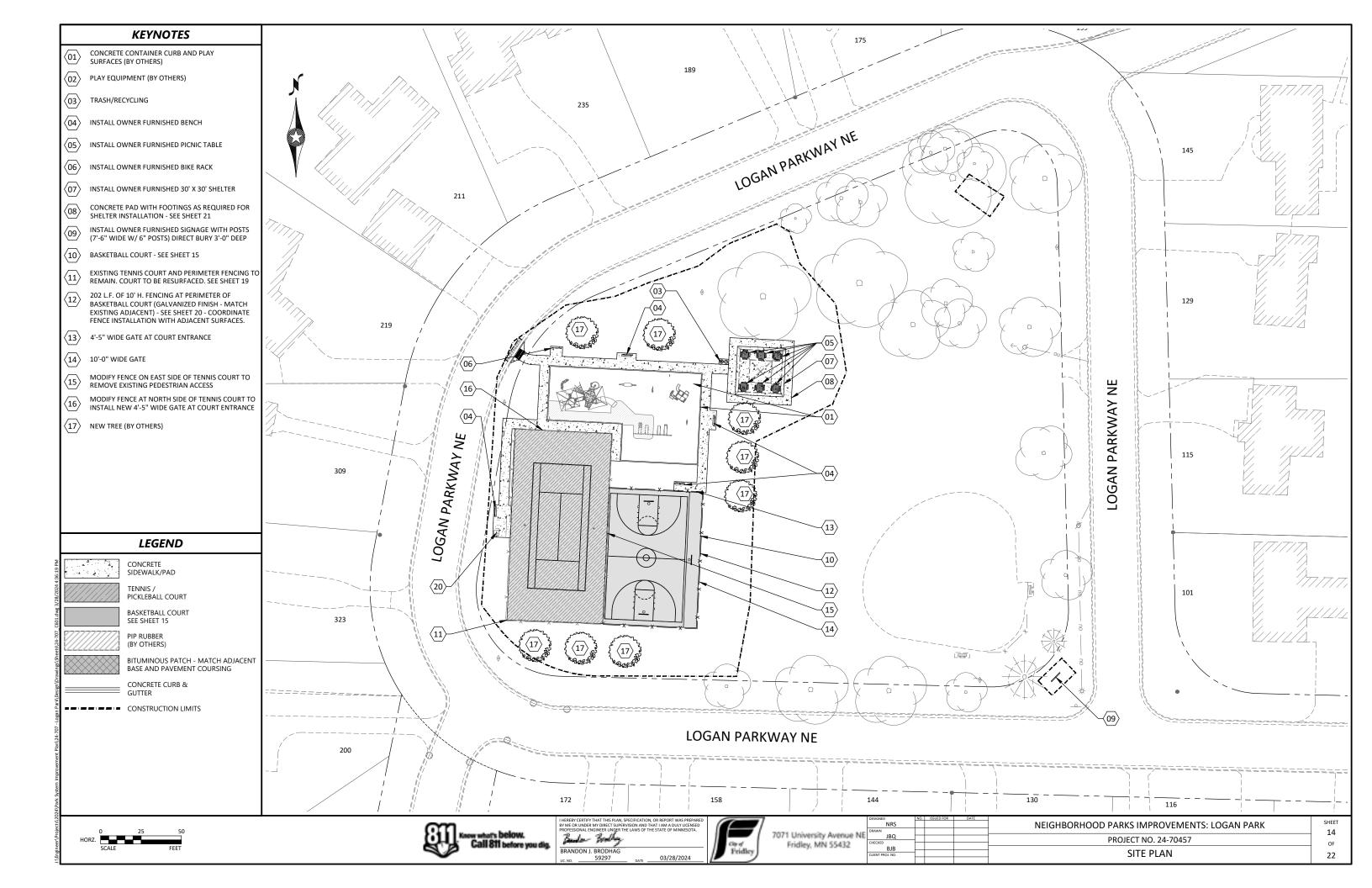
SEED MIX 25-151

DESIGNED NRS	NO.	ISSUED FOR	DATE	NEIGHBORHOOD PARKS IMPROVEMENTS	SHEET
DRAWN				NEIGHBORHOOD PARKS IIVIPROVEIVIENTS	4
JBQ				PROJECT NO. 24-70457	OF
BJB	H			STATEMENT OF ESTIMATED QUANTITIES	22
CLIENT PROJ. NO.				STATEMENT OF ESTIMATED QUANTITIES	22

ars below. I 811 before you dig.	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PI BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DUL PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNES
	BRANDON J. BRODHAG
	59297 03/28/202









Permit Application Review Report Date: 6/12/2024

Board Meeting Date: 6/17/2024

Agenda Item: 9

Applicant/Landowner: City of Blaine Attn: Cody Sylvester 10801 Town Square Drive Blaine, MN 55449

Project Name: 2024 Southwest Area Street Reconstruction Project

Project PAN: P-24-015

Project Purpose: Road reconstruction and CD 17 culvert improvements

Project Location: 89th Ave NE Between Coon Rapids Blvd and TH 65; Lincoln St; 85th and 86th,

City of Blaine

Site Size: size of parcel - 17.82 acres; size of disturbed area - 17.82 acres; size of regulated

impervious surface -

Applicable District Rule(s): Rule 2, Rule 3, Rule 4, Rule 6, Rule 7

Recommendation: Approve with 2 Conditions and 3 Stipulations

Description: The City of Blaine is proposing the reconstruction of numerous City streets and a culvert replacement in Springbrook Creek under 89th Ave NE. The project will disturb 17.8 acres and proposes 8.38 acres of new and fully reconstructed impervious. The project area is within the Springbrook Creek (Ditch 17) subwatershed. The relevant water resource concerns are stormwater management, erosion and sediment control, and culvert replacement. These correspond to District Rules 3, 4 and 6. See attached Figure 1: Project Location.

Conditions to be Met Before Permit Issuance:

Rule 2.7 – Procedural Requirements

1. Submittal of a performance escrow in the amount of \$8,910.00.

Rule 4.0 – Soils and Erosion Control

2. Update the erosion and sediment control plan to include a note to stabilize soils and soil stockpiles within 24 hours of inactivity.

Stipulations: The permit will be issued with the following stipulations as conditions of the permit. By accepting the permit, the applicant agrees to these stipulations:

- 1. Submittal of as-builts for the stormwater management practices and associated structures listed in Tables 2 and 3, including volume, sump inverts and critical elevations, and proof of hydrodynamic separators.
- 2. Submittal of as-built (invert, pipe material, pipe size) for culvert and storm structures installation within County Ditch 17.
- 3. Completion of post construction infiltration tests on basins Cell-1; SS-881A, Cell-2; SS-8876A; 3, SS-4922A; 4, Filtration Trench (SS-117A); 5, SS-200D; 6, SS-200B; 7, SS-205B; 8, SS-210B; 9, SS211A; 10, SS-219 by filling the basins to a minimum depth of 6 inches with water and monitoring the time necessary to drain, or multiple double ring infiltration tests to ASTM standards. The Coon Creek Watershed District shall be notified prior to the test to witness the results.

Exhibits:

Exhibit Type	Exhibit Author	Signature Date	Received Date
Floodplain Impact	Bolton & Menk	04/01/2024	03/20/2024
Geotechnical Exploration Report	Hauge Geotechnical Services	01/12/2024	03/20/2024
Site Plan Figures	Bolton & Menk	undated	05/20/2024
CD 17 Analysis	Bolton & Menk	undated	03/20/2024
SHSAM Calculations	Bolton & Menk	undated	05/20/2024
Stormwater Management Report	Bolton & Menk	05/29/2024	05/29/2024
MIDS	Bolton & Menk	03/20/2024	05/29/2024
HydroCAD (Existing & Proposed)	Bolton & Menk	05/28/2024	05/29/2024
Construction Plans	Bolton & Menk	05/06/2024	05/29/2024
BMP Table	Bolton & Menk	undated	05/29/2024

Findings

Fees and Escrows (Rule 2.7):

The applicant is a government agency and is therefore exempt from an application fee or a review and inspection fee deposit. The applicant will be required to submit a performance escrow in the amount of \$8,910.00. This corresponds to a base escrow of \$2,000, plus an additional \$500/acre of disturbance (17.82 acres of land disturbance proposed).

Stormwater Management (Rule 3.0):

Rule 3.0 applies to the proposed project because it is a public linear project where the sum of the new and fully reconstructed impervious surface equals one or more acres.

The Hydrologic Soil Group (HSG) of soils on site are HSG A.

<u>Rate Control</u>: Peak stormwater flow rate at each point of site discharge does not increase from the pre-development condition for the 24-hour precipitation event with a return frequency of 2-, 10-, 100- years as shown in Table 1. The project will not impact Drainage Sensitive Use areas.

Point of	2-year (cfs	2-year (cfs)		10-year (cfs)		100-year (cfs)	
Discharge	Existing	Proposed	Existing	Proposed	Existing	Proposed	
87th Ln	2.27	2.22	4.07	4.02	8.41	8.35	
Laddie Lake/Out-4	54.71	53.31	106.51	104.42	236.16	232.23	
Central Ave	2.83	2.03	3.38	3.38	6.42	6.42	
91st Ave	6.12	5.5	12.21	11.44	27.77	26.86	

88th Ave	9.79	9.58	19.46	19.12	43.36	42.79
CD 17	14.3	13.5	25.11	23.8	51.16	48.83

Table 1.

<u>Volume Control</u>: The proposed project is a public linear project; therefore, the volume reduction requirement is equal to 1 inch over the area of new impervious surface, or 0.5 inches over the sum of the area of new and fully reconstructed impervious surface, whichever is greater. The amount of proposed impervious required to be treated is 365,033 ft².

The applicant is proposing the Stormwater Management Practices (SMPs) described below:

Drainage Area	Impervious required to be treated (ft²)	Proposed SMP	TP Removal Factor	Required Water Quality Volume (ft³)	Water Quality Volume Provided (ft ³)
87th Ln.	13,852	0	0	577	0
Laddie lake / Out-4	196,456	Multiple Basins	1/0.5	8,186	4,539
Central Ave	10,542	0	0	439	0
91st Ave	14,723	0	0	613	0
88th Ave	46,609	SS-8876A	0.5	1,942	429
CD17	82,851	SS-8881A	1	3,452	160
Totals:	365,033		_	15,210	5,059

Table 2.

The following pretreatment has been provided:

SMP ID	Pretreatment Device/Method	Percent TSS Removal
SS-214	Sump Manhole	94.95
Rain Guardian	Rain Guardian	80
SS-212A	Sump Manhole	88.15
SS-211B	Sump Manhole	99.6
SS-206B	Sump Manhole	97.6
SS-201B	Sump Manhole	94.55
SS-201D	Sump Manhole	99.95
SS-126	Sump Manhole	99.1
SS-114	Sump Manhole	95.55
SS-118	Sump Manhole	74.1

Table 3.

Pretreatment is required to be designed such that the device/method provides removal of 80% TSS entering an infiltration or filtration Stormwater Management Practice. SS-118 Sump Manhole does not meet the TSS requirements because a 4-foot sump (which would meet 80%) cannot be utilized due to utility conflicts. The proposed project meets pretreatment requirements to the maximum extent practicable as shown in Table 3.

Due to limited green space, fully developed adjacent areas, utility conflicts, and location within the Emergency Response Areas the volume control standard has been met to the maximum extent practicable as shown in Table 2.

<u>Water Quality</u>: The total Water Quality Volume for the project has been provided to the maximum extent practicable.

Stormwater treatment on site must remove at least 80% of the average annual post development TSS per discharge location. The following TSS removal has been provided:

Discharge Point	TSS Removal Provided
87th Ln	0
Laddie Lake/Out-4	58
Central Ave	0
91st Ave	0
88th Ave	63
CD17	96

Table 4.

The TSS removal standard is not met at each discharge point as shown in Table 4 due to site constraints listed in the volume control section above.

<u>Discharges to Wetlands</u>: The proposed project does not discharge to any wetlands.

<u>Landlocked Basins</u>: The proposed drainage system does not outlet to a landlocked basin, therefore this section does not apply.

<u>Low Floor Freeboard</u>: The proposed project is not considered new development with buildings and habitable structures; therefore, this section does not apply.

Maintenance:

Access: Sufficient maintenance access has been provided on the plans for all stormwater management practices.

Easements: All required maintenance easements have been provided on the plans.

Maintenance Agreements: All proposed stormwater management practices will be maintained as part of standard municipal public work activities. Therefore, no maintenance agreement will be required.

Soils and Erosion Control (Rule 4.0)

Rule 4.0 applies to the proposed project because it is a land disturbing activity that requires a permit under another District rule.

The proposed project drains to Springbrook Creek (CD 17). The soils affected by the project include Zimmerman and Isanti and have a soil erodibility factor of 0.15 or greater. Disturbed areas are not proposed to be stabilized within 24 hours, as required. The proposed erosion and sediment control plan includes perimeter control, inlet protection, and erosion control blanket. The erosion control plan does not meet District requirements because soils and soil stockpiles are not consistently proposed to be stabilized within 24 hours of inactivity. See attached Figure 2: Erosion and Sediment Control Plan.

Wetlands (Rule 5.0)

The proposed project does not include activities which result in the filling, draining, excavating, or otherwise altering the hydrology of a wetland. Rule 5.0 does not apply.

Floodplain (Rule 6.0)

Rule 6.0 applies to the proposed project because it includes land disturbing activities within or adjacent to the boundary of the 100-year flood elevation as mapped and modeled by the District.

The regulatory floodplain elevation is 897.8 ft MSL. The application proposes the placement of 47.13 cubic yards of fill within the floodplain. This a one-time deposition of less than 50 cubic yards, therefore compensatory storage is not required. The deposition will not affect the flow capacity of the ditch. See attached Figure 3: Floodplain Impacts.

Drainage, Bridges, Culverts, and Utility Crossings (Rule 7.0)

Rule 7.0 applies to the proposed project because it includes land disturbing activities which construct-improve-repair or alter the hydraulic characteristics of a bridge profile control or culvert structure on a creek-public ditch or major watercourse.

The regulated waterway is Springbrook Creek (County Ditch 17). The City is proposing to replace the existing CMP culvert with a RCP pipe and inlet structure designed to block debris from entering the downstream storm sewer system. Hydraulic options were modelled and reviewed. The banks of the waterway have been proposed to be stabilized with permanent vegetation. The proposed conditions and gradient of the waterway will not result in a velocity that will cause bank erosion.

Buffers (Rule 8.0)

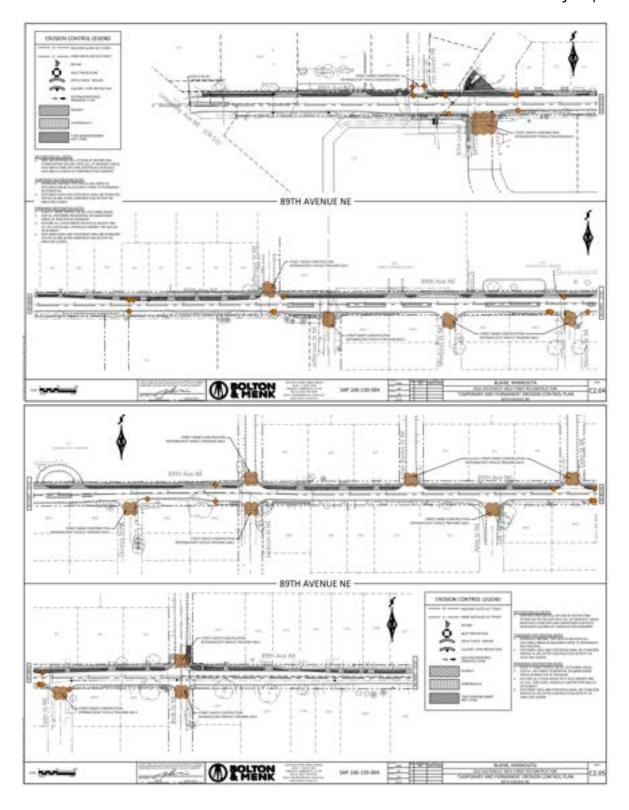
The proposed project does not include a land disturbing activity on land adjacent or directly contributing to a Public Water, Additional Waters, High or Outstanding Ecological Value Waters, a Public Ditch, or Impaired Waters/waters exceeding state water quality standards. Rule 8.0 does not apply.

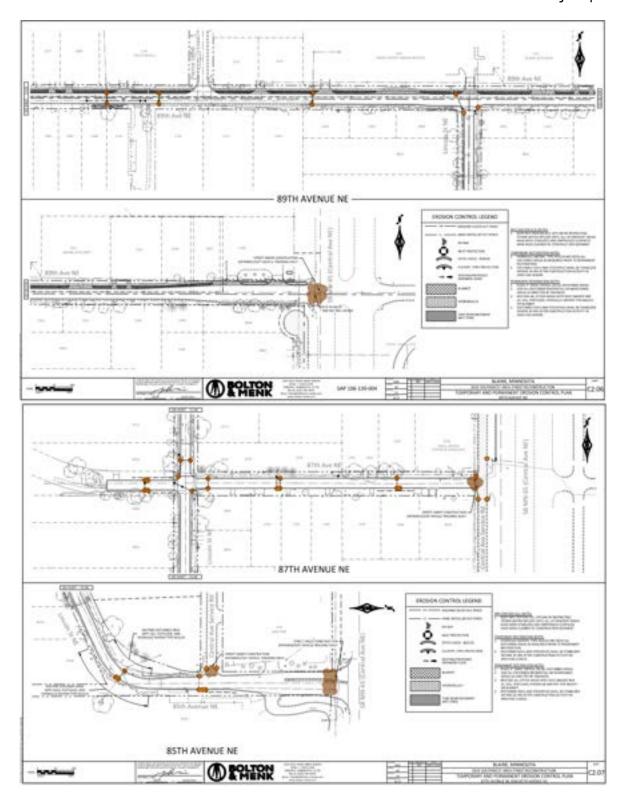
Variances (Rule 10.2)

The proposed project is not requesting a variance from the District's rules, regulations, and policies. Rule 10.2 does not apply.



Figure 1: Project Location





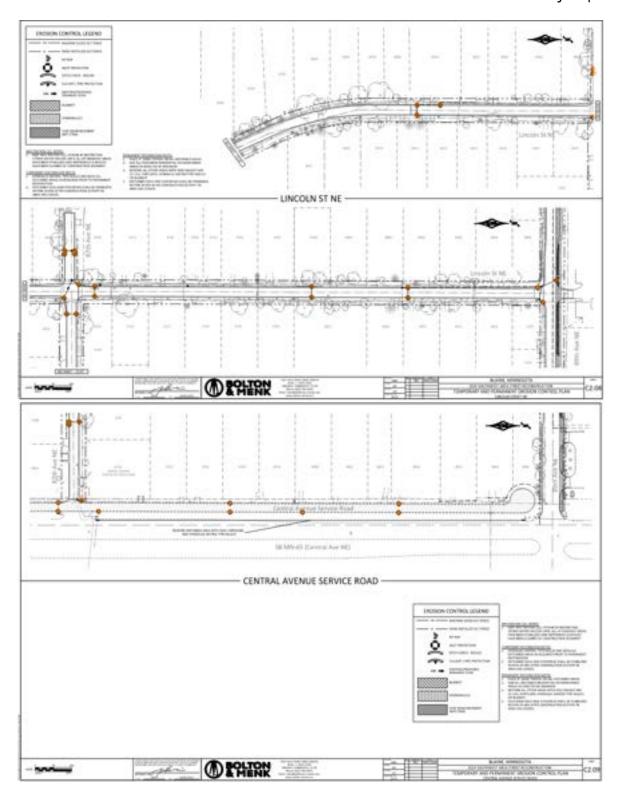


Figure 2: Erosion and Sediment Control Plan

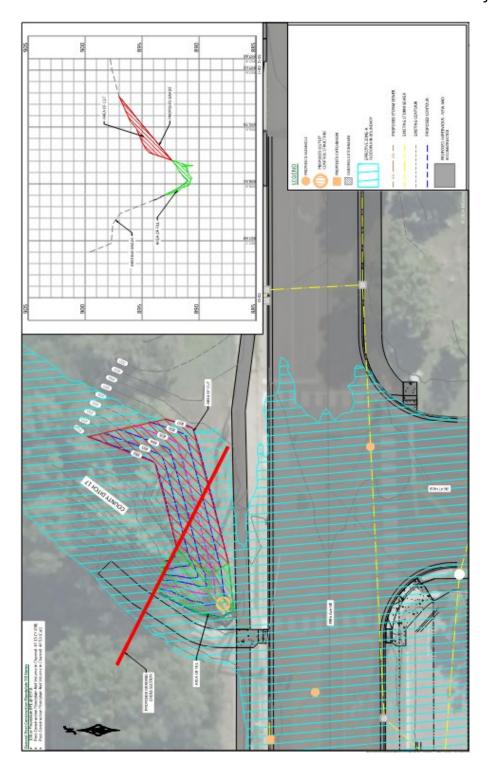
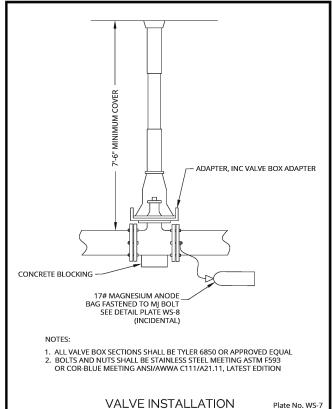
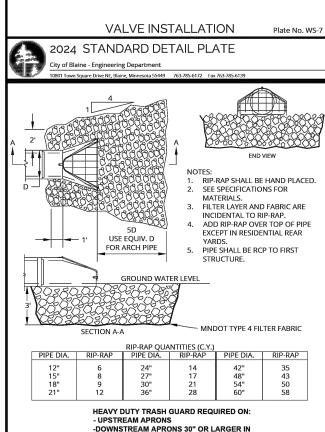


Figure 3: Floodplain Impacts and Mitigation





MAINTAINED RESIDENTIAL AREAS

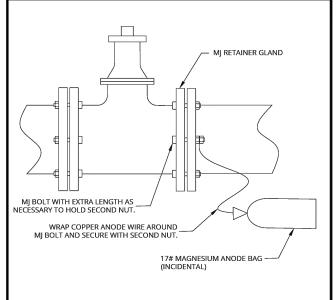
-NO TRASH GUARD ON DITCH CROSSINGS UNLESS OTHERWISE DIRECTED

RIP-RAP FOR OUTLET TO

WET DITCH OR BASIN

2024 STANDARD DETAIL PLATE

City of Blaine - Engineering Department



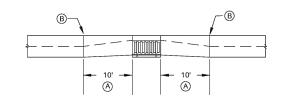
NOTES:

- ANODE SHALL BE PLACED IN A HORIZONTAL POSITION AT OR BELOW
 THE ELEVATION OF THE WATER MAIN, THE ANODE SHALL ALSO BE
 PLACED WITH A MINIMUM HORIZONTAL SEPARATION OF 2-FEET FROM
 THE MAIN, HYDRANT, OR VALVE.
- 2. REMOVE PLASTIC OUTER WRAP FROM ANODE. DO NOT DAMAGE CLOTH
- 3. COPPER ANODE WIRE INSULATION MUST BE STRIPPED BACK A MINIMUM OF 3-INCHES FOR CONNECTION TO MJ BOLT.

VALVE ANODE CONNECTION Plate No. WS-8

2024 STANDARD DETAIL PLATE

City of Blaine - Engineering Department



(A)- 10' TRANSITION FROM CASTING OPENING TO D312 CURBING.

(B) - EXPANSION IOINT.

CASTING SCHEDULE

STRUCTURE TYPE	NEENAH CASTING TYPE
MANHOLE (DIA. VARIES)	R-1733 W/ PLATEN LID
CATCH BASIN (DIA. VARIES)	R-3067-V (SEE BLAINE PLATE SD-2)
24" X 36"	R-3067-V (SEE BLAINE PLATE SD-1)
24" X 36"	R-3290-A (DRIVEWAYS)
MNDOT TYPE "H"	R-3250-1 (B STYLE CURBING)
MNDOT TYPE "H"	R-3508-A2 (D312 STYLE CURBING)
MNDOT TYPE "H"	R-2577-1 TYPE C GRATE (OPEN SPACES)

- 1. IF CATCHBASIN IS NOT LOCATED ON PROPERTY LINE, DO NOT USE 24" X 36" STRUCTURE.
- 2. CATCH BASIN CASTINGS SHALL BE R-3067-V VANE GRATE FOR FLOW THRU AND BI-DIRECTIONAL R-3067-VB VANE GRATE IN SAG LOCATIONS.

CATCH BASIN/CURBING & CASTING SCHEDULE

2024 STANDARD DETAIL PLATE City of Blaine - Engineering Department



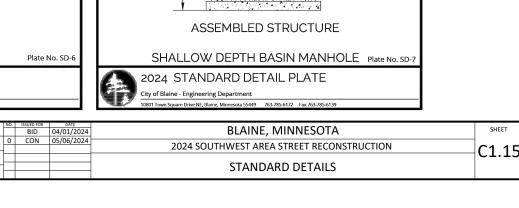
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Plate No. SD-5

SAP 106-139-004

City of Blaine - Engineering Department

MSN DJT TJP





BASE TO BE GROUTED TO FORM A SMOOTH INVERT TO OUTLET.
PIPE CUT OUTS TO BE LOCATED WHERE REQUIRED.

SEE DETAIL MI-3 FOR ADJUSTING RING CONSTRUCTION

STRENGTH DESIGN OF BASE SLAB AND STRUCTURE PER MANUFACTURER.

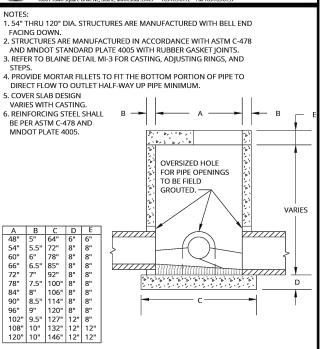
INSIDE DIMENSIONS 2 00' X 3 00'

SEE SD-5 FOR CASTING SCHEDULE

2 00'

SECTION A-A

0.50' -



STANDARD STORM SEWER CATCH BASIN/MANHOLE & MANHOLE 2024 STANDARD DETAIL PLATE

REQUIREMENTS. RINGS AS NEEDED FORM INVERT WITH MORTAR PAY DEPTH (INCIDENTAL)

STRUCTURE DIAMETER

15" 22" 29"

BACK OF CURB -

NOTES:

City of Blaine - Engineering Department

MIN. DEPTH

REQUIRED TO

CONSTRUCT

BARREL

STRUCTURE

STABLE PRECAST

REFERENCE BLAINE DETAILS

MI-3 AND SD-6 FOR ADDITIONAL CASTING AND

MANHOLE CONSTRUCTION

2.00'

* VARIES

STANDARD PLATE 4020. SEE SD-5 FOR CASTING SCHEDULE

2024 STANDARD DETAIL PLATE

1.50'

STRENGTH DESIGN OF COVER SHALL BE PER MNDOT

RECTANGULAR OPENING

CB COVER

PRF-CUT

PRECAST COMPONENTS

DOGHOUSE

CENTER OF DIDE

AND STRUCTURE

SEE DETAIL MI-3 FOR

Plate No. SD-2

PRECAST CONCRETE

SECTION - INVERTED

MANHOLE BARREL

- PRECAST CONCRETE

CONCRETE ADJUSTING

BASE SLAB

ADIUSTING RINGS

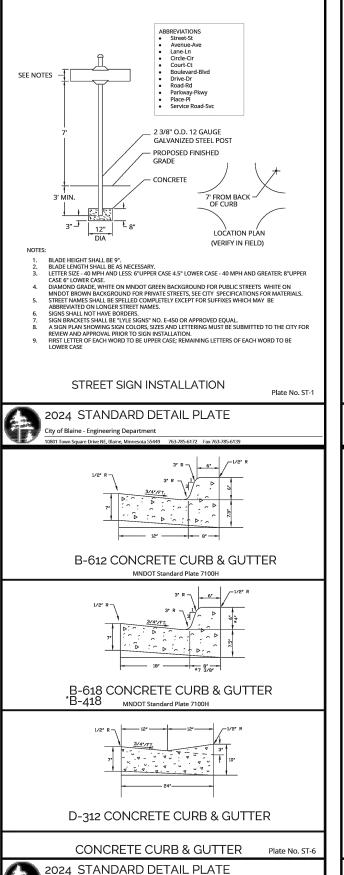
- PRECAST CONCRETE TOP SLAB W/ 2' x 3' HOLE

R-3067 CASTING

CENTER OF STRUCTURE

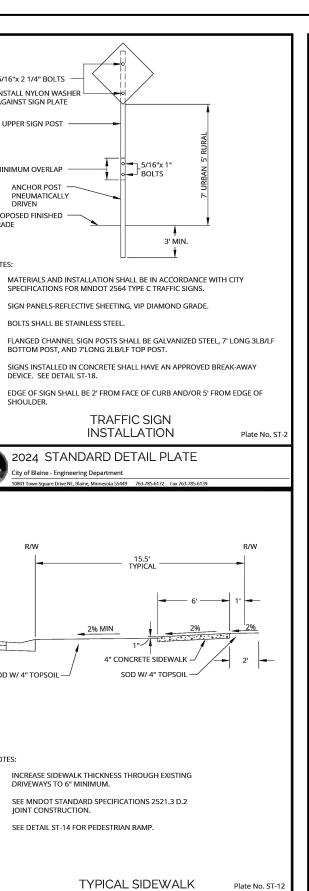
04/01/2024

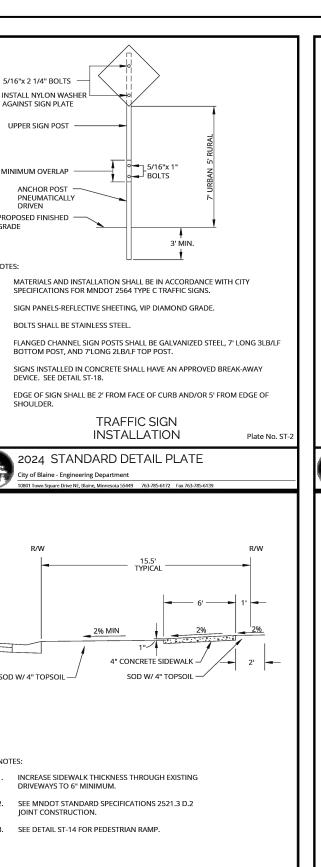
Plate No. SD-3

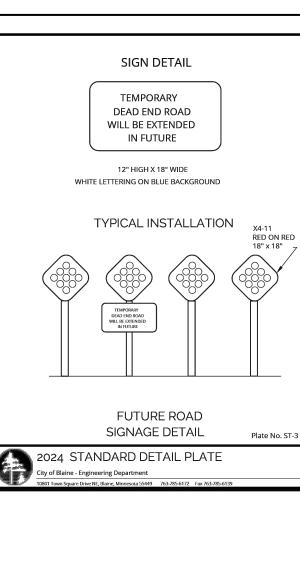


City of Blaine - Engineering Department









THE CITY OF BLAINE WILL USE MNDOT STANDARD PLAN SHEETS 5-297.250 (1-6) FOR THE CONSTRUCTION OF RAMPS, EXCEPT AS

- TRUNCATED DOME PANELS SHALL BE GRAY EPOXY COATED PER CURRENT MNDOT APPROVED PRODUCTS LIST.
- THE PANELS SHALL BE INSTALLED IN WET MORTAR BASE OVER A 6" CONCRETE SLAB.

PEDESTRIAN RAMP **REQUIREMENTS**

2024 STANDARD DETAIL PLATE City of Blaine - Engineering Department

SECTION A-A 29' B/B ■ D312 CONC. C&G TRANSITION TO EXPANSIO B618 STYLE CONC. C&G 15 15 15 TRIANGULAR D312 SECTION C&G 10' CONTRACTION - GUTTER LINE ¬ VALLEY GUTTER IOINTS 1. CURB IN RADIUS SHALL BE FORMED AND POURED AS ONE UNIT WITH TRIANGULAR SECTION AND VALLEY GUTTER. CURB IS CONSIDERED PART OF TRIANGULAR SECTION FOR PAYMENT PURPOSES. 2. SQUARE FOOT PAYMENT OF VALLEY GUTTER INCLUDES ALL CONCRETE SURFACE BETWEEN EXPANSION JOINTS. CONCRETE **VALLEY GUTTER** Plate No. ST-4 2024 STANDARD DETAIL PLATE City of Blaine - Engineering Department SIGN PANEL AS SPECIFIED 2"X 2" x 12 GA. TELESPAR GALVANIZED SIGN POST KLEEN BREAK MODEL 425 SURFACE MOUNT TRAFFIC SIGN INSTALLATION ON CONCRETE Plate No. ST-15

2024 STANDARD DETAIL PLATE

3801 Town Square Drive NF. Blaine, Minnesota 55449 763-785-6172 Fax 763-785-6139

City of Blaine - Engineering Department

3/4"/FT.

18" 18"

MICHAEL S NILL 04/01/2024



2024 STANDARD DETAIL PLATE

City of Blaine - Engineering Department

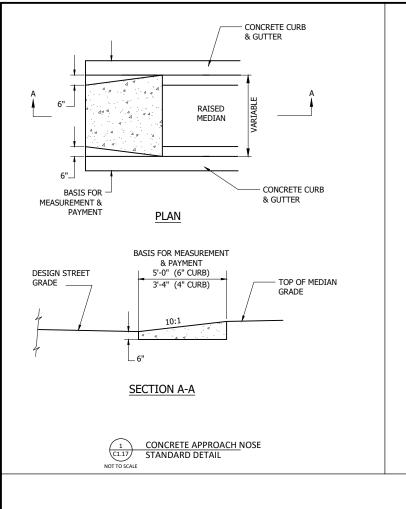
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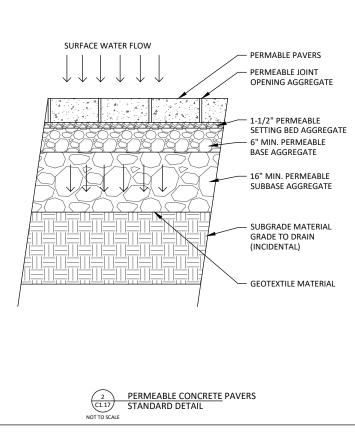
SAP 106-139-004

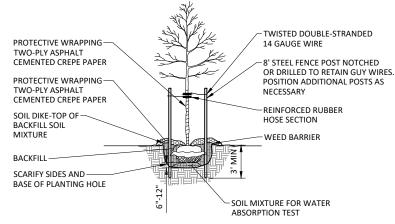
BID 04/01/2024 0 CON 05/06/2024 MSN DJT TJP

Plate No. ST-14

BLAINE, MINNESOTA 2024 SOUTHWEST AREA STREET RECONSTRUCTION C1.16 STANDARD DETAILS







DECIDUOUS TREE PLANTING

NOT TO SCALE

BAG & BALL PLANTING NOTE:

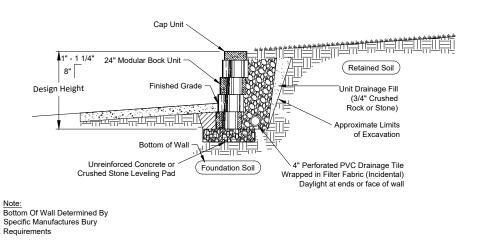
- 1. REMOVE WRAPPING AND ALL TIES OR STRAPS. IF ROOT BALL IS WRAPPED IN BURLAP THE LOWER ½ PORTION OF THE FABRIC MAY BE LEFT AT THE BOTTOM OF THE HOLE. SYNTHETIC WRAP MUST BE REMOVED AND PROPERLY DISPOSED.
- 2. LOOSEN ROOTS TO ENSURE THEY ARE NOT GIRDLING THE ROOT BALL.
- SALVAGE AND REUSE ALL SOIL THAT CAME WITH THE ROOT BALL.
- 4. IF ROOT BALL IS EXTREMELY DRY WATER IT PRIOR TO
- PLACING IT IN THE HOLE.
 5. IF TREE IS CONTAINER GROWN, SALVAGE ALL SOIL AND MIX WITH SUPPLEMENTED SOIL FOR BACK FILL.

- 1. PROVIDE AND INSTALL HEALTHY PLANT MATERIALS THAT MEET ALL SPECIFICATIONS AND ARE OF THE SIZE, TYPE AND SPECIES NAMED ON THE PLANT SCHEDULE AND SHOWN ON THE PLANS. 2. DIG PLANT HOLE 1'-0" MINIMUM LARGER ON ALL SIDES THAN
- ROOT BALL. 3. PRIOR TO PLACING TREE, SCARIFY BOTTOM AND SIDES OF THE PLANTING HOLE.
- 4. TEST SOIL ABSORPTION. FILL HOLE PARTIALLY WITH SUPPLEMENTED SOIL MIXTURE, ADD WATER AND ALLOW TO
- PUDDLE AND SETTLE PRIOR TO SETTING TREE.

 5. AFTER PUDDLING HAS SETTLED, SET TREE AND BACK FILL WITH SUPPLEMENTED SOIL MIXTURE.
- 6. WATER THOROUGHLY AND ADD BACK FILL AS NEEDED AFTER MOISTURE IS ABSORBED.
- BUILD SOIL DIKE AROUND PERIPHERY OF TREE TO HOLD WATER. 8. AFTER SETTLEMENT, MULCH WITH MINIMUM 4" LAYER
- SHREDDED BARK, WOOD CHIPS OR AS OTHERWISE SPECIFIED. DO NOT MULCH UP AGAINST THE TRUNK.

 9. REMOVE DEAD OR DAMAGED BRANCHES. RETAIN THE NATURAL

DECIDUOUS TREE PLANTING



TYPICAL WALL SECTION

04/01/2024

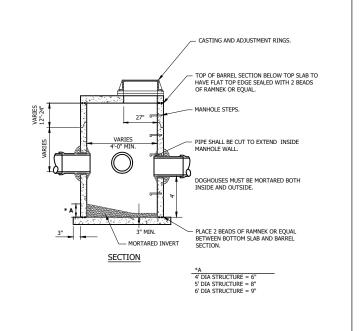


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SAP 106-139-004



BLAINE, MINNESOTA 2024 SOUTHWEST AREA STREET RECONSTRUCTION C1.17 PROJECT SPECIFIC DETAILS

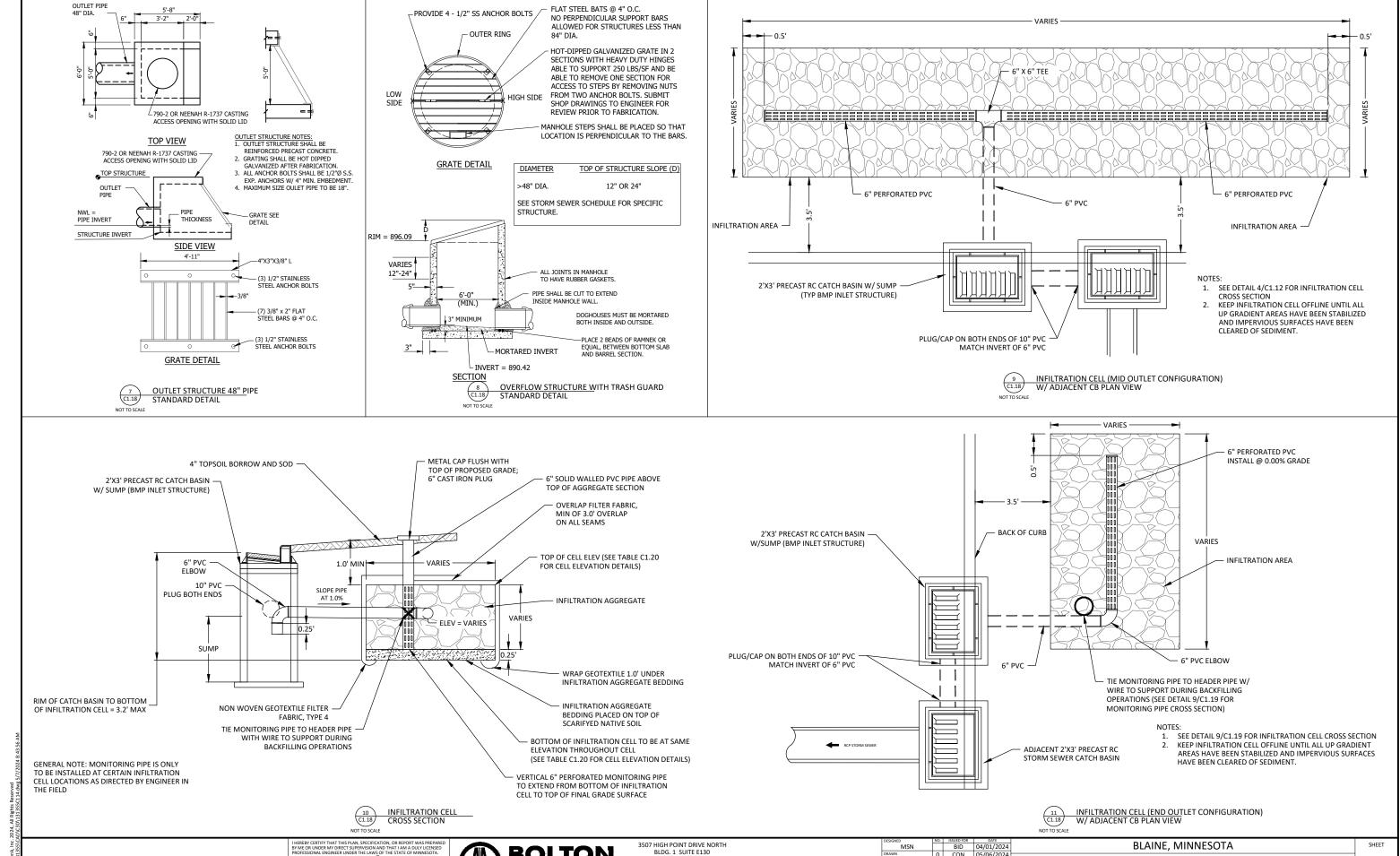


STORM SEWER MANHOLE WITH SUMP STANDARD DETAIL

CASTING AND ADJUSTMENT RINGS. DOGHOUSES SHALL BE MORTARED ON BOTH THE INSIDE AND OUTSIDE. PLACE 2 BEADS OF -RAMNEK OR EQUAL, BETWEEN BOTTOM SLAB AND BARREL SECTION. MORTARED INVERT SECTION

NOT TO SCALE

CATCH BASIN WITH SUMP STANDARD DETAIL



OAKDALE, MINNESOTA 55128

Phone: (651) 704-9970 Email: Oakdale@bolton-menk.com

www.bolton-menk.com

BID 04/01/2024

MSN DJT

SAP 106-139-004

BLAINE, MINNESOTA

2024 SOUTHWEST AREA STREET RECONSTRUCTION

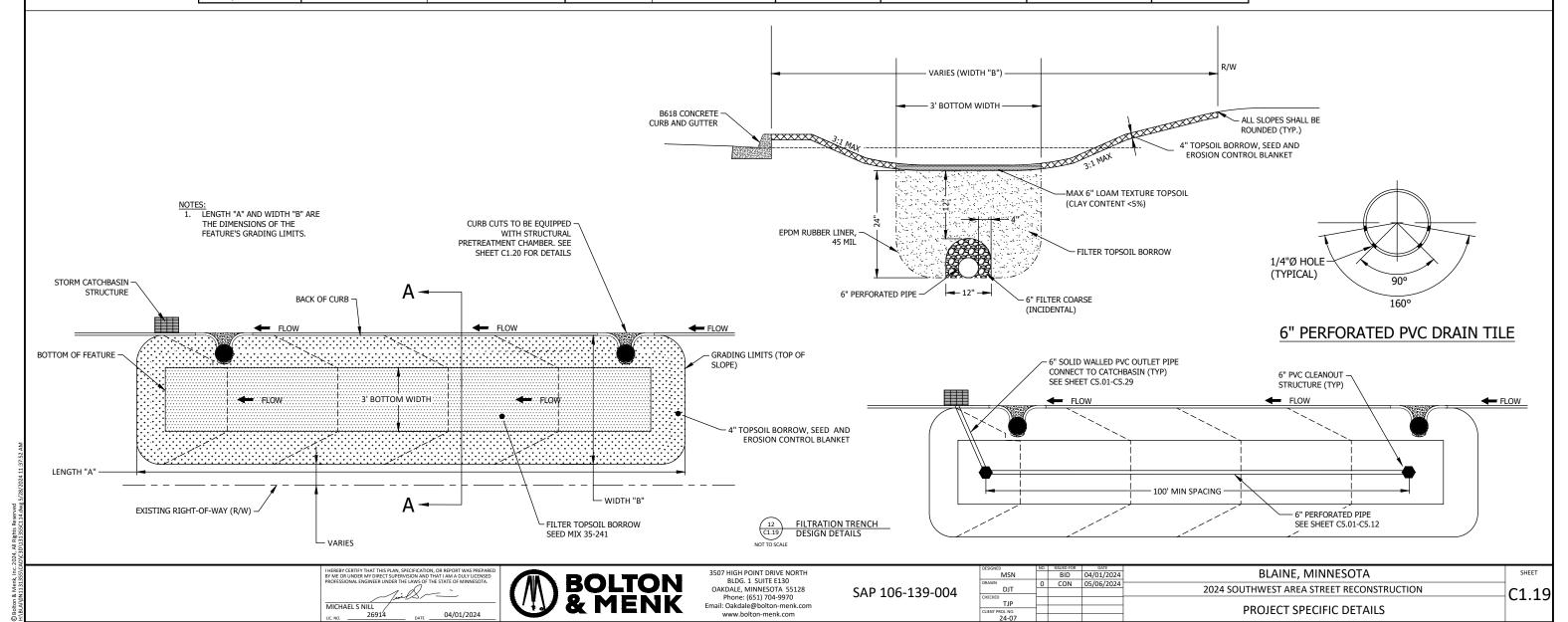
PROJECT SPECIFIC DETAILS

C1.18

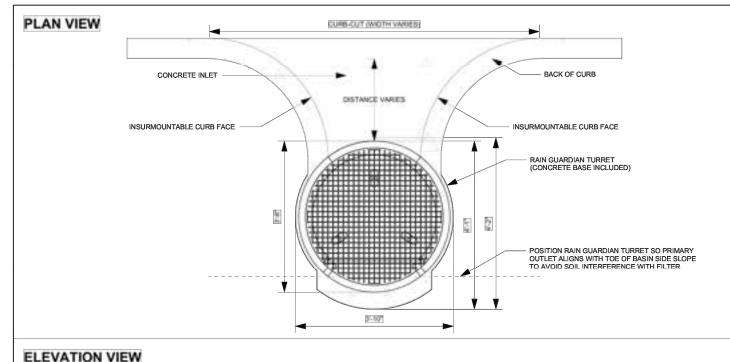
MICHAEL S NILL

04/01/2024

BMP #; Inlet Structure ID	Proposed Inlet Structure Rim and/or BMP Overflow Elev.	Proposed PVC Pipe Inlet U/S Invert Elev	Inlet Structure Invert Elev. w/ 3' Sump	Inlet Structure Total Depth	Top of Infiltration Cell Elev.	Bottom of BMP Elev.	Proposed BMP Footprint	Proposed BMP Aggregate Section Total Depth
	ft	ft	ft	ft	ft	ft	sq-ft	ft
1; SS-114	901.43	899.18	896.18	5.25	900.57	898.23	150.0	2.34
2; SS-118	905.48	903.23	900.23	5.25	905.30	902.28	320.0	3.02
3; SS-126	911.42	909.17	906.17	5.25	910.59	908.22	350.0	2.37
4; SS-120A	See Plans	905.31	N/A	0.75	N/A	N/A	300.0	2.00
5; SS-201D	907.48	905.23	902.23	5.25	907.07	904.28	675.0	2.79
6; SS-201B	907.48	905.23	902.23	5.25	907.31	904.28	450.0	3.03
7; SS-206B	909.49	907.24	904.24	5.25	908.87	906.29	600.0	2.58
8; SS-211B	908.90	906.65	903.65	5.25	907.83	905.70	600.0	2.13
9; SS-212A	907.54	905.29	902.29	5.25	906.83	904.34	700.0	2.49
10; SS-214	909.37	907.12	904.12	5.25	908.84	906.17	600.0	2.67



PROJECT SPECIFIC DETAILS



RAIN GUARDIAN TURRET INLET

FILTER WALL

PLAN VIEW NOTES

1. INLET WIDTH AND DISTANCE BETWEEN BACK OF CURB AND RAIN GUARDIAN TURRET MAY VARY WITH SITE CONDITIONS.

2. CONCRETE BASE EXTENDS BEYOND THE FILTER WALL OF THE RAIN GUARDIAN TURRET TO SERVE AS A SPLASH DISSIPATOR

1. STEEL REINFORCED, COLD JOINT SECURED MONOLITHIC CONCRETE STRUCTURE (1,030 LBS), CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS, CONCRETE AIR ENTRAINED (5% TO 8.5% BY VOLUME). MANUFACTURED AND DESIGNED TO ASTM C858.

2. THREE-POINT PICK USING RECESSED LIFTING POCKETS WITH A STANDARD HOOK.

3. FIBERGLASS TOP GRATE (32 LBS, 1-1/2" THICK) - 1,760 LB CONCENTRATED LOAD OR 409 LB/SQ-FT UNIFORM LOAD.

3D VIEWS





INSTALLATION NOTES

1. INSTALL THE CLASS 5 BASE (COMPACTED TO 95% STANDARD) PROCTOR). THE DISTANCE FROM THE BACK OF THE CURB MAY VARY BASED ON SITE CONDITIONS, BUT CONSIDERATIONS SHOULD INCLUDE SLOPE OF THE INLET AND BASIN SIDE SLOPES ADJACENT TO THE RAIN GUARDIAN TURRET, POSITION RAIN GUARDIAN TURRET SO PRIMARY OUTLET ALIGNS WITH TOE OF BASIN SIDE SLOPE TO AVOID SOIL INTERFERENCE WITH REMOVABLE FILTER WALL, EXCAVATE 1' 10' BELOW THE GUTTERLINE ELEVATION (I.E. THE BIORETENTION OVERFLOW ELEVATION) TO ACCOMMODATE THE 1' PONDING DEPTH, 6" CLASS 5 AGGREGATE, AND 4" RAIN GUARDIAN TURRET BASE (INCLUDED). THEREFORE, THE TOP OF THE CLASS 5 COMPACTED BASE IS PRECISELY 1" 4" BELOW THE GUTTERLINE ELEVATION. THE INLET TO THE RAIN GUARDIAN TURRET WILL BE 10-1/2" ABOVE THE TOP OF THE CONCRETE BASE AND 1-1/2" BELOW THE GUTTERLINE ELEVATION TO ACCOMMODATE A SLOPED INLET FROM THE GUTTER TO THE RAIN GUARDIAN TURRET.

2. SET RAIN GUARDIAN TURRET ON THE PREPARED CLASS 5 BASE.

3. INSTALL FRAMING FOR INLET BETWEEN RAIN GUARDIAN TURRET AND BACK OF CURB. TOP ELEVATIONS OF THE FRAMING SHOULD MATCH THE TOP OF THE CURB ON THE STREET SIDE AND THE TOP OF THE RAIN GUARDIAN TURRET ON THE BIORETENTION SIDE.

4. INSTALL EXPANSION/CONTRACTION JOINT MATERIAL OR A SHEET OF POLY TO SERVE AS A BOND BREAK BETWEEN RAIN GUARDIAN TURRET AND CONCRETE INLET BEFORE POURING INLET.

5. SIDE CURBS OF THE POURED INLET MUST HAVE AN INSURMOUNTABLE PROFILE TO PREVENT WATER FLOW FROM OVERTOPPING THE DOWNSTREAM SIDE OF THE INLET.

6. REMOVABLE FILTER WALL SHOULD BE INSTALLED WITH FILTER FABRIC ON THE INTERIOR SIDE OF THE RAIN GUARDIAN TURRET.

ELEVATION VIEW NOTES

1. THE TOP OF THE CLASS 5 BASE (COMPACTED TO 95% STANDARD PROCTOR) IS PRECISELY 1' 4' BELOW THE GUTTERLINE ELEVATION.



INLET INSURMOUNTABLE CURE

GUTTERLINE

SITE SPECIFIC

SITE SPECIFIC

CLASS 5 AGGREGATE

SUBSOILS

RAIN GUARDIAN TURRET PRETREATMENT CHAMBER **BIORETENTION PONDING DEPTH: 1'** TYPICAL DETAIL

GUTTERLINE

BASIN BOTTOM

REVISION HISTORY





MANUFACTURED BY:





RAIN GUARDIAN TURRET (CONCRETE BASE INCLUDED)

151.76

PRIMARY

TOP FIBERGLASS GRATE

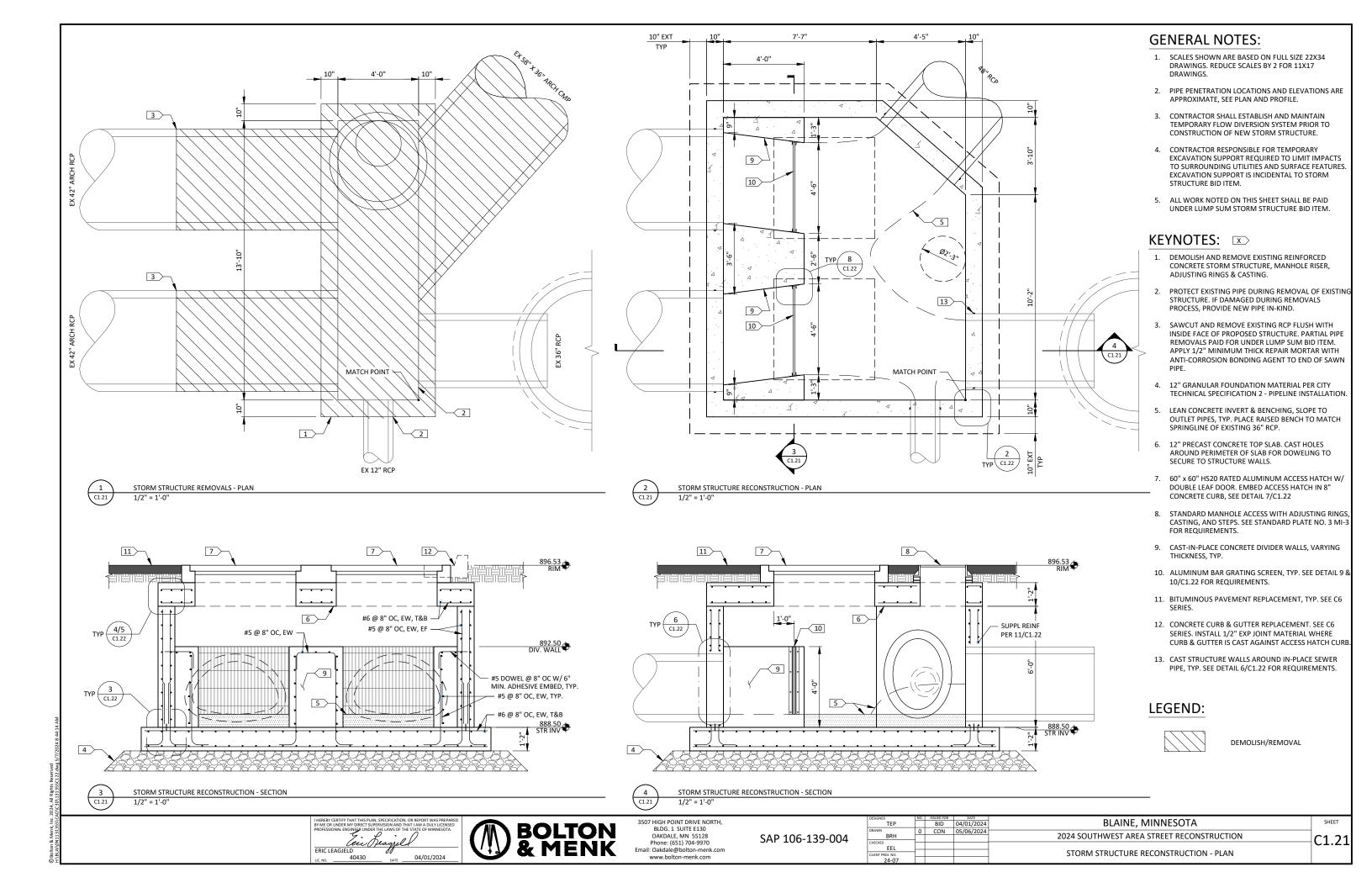
HIGH VOLUME OVERFLOW

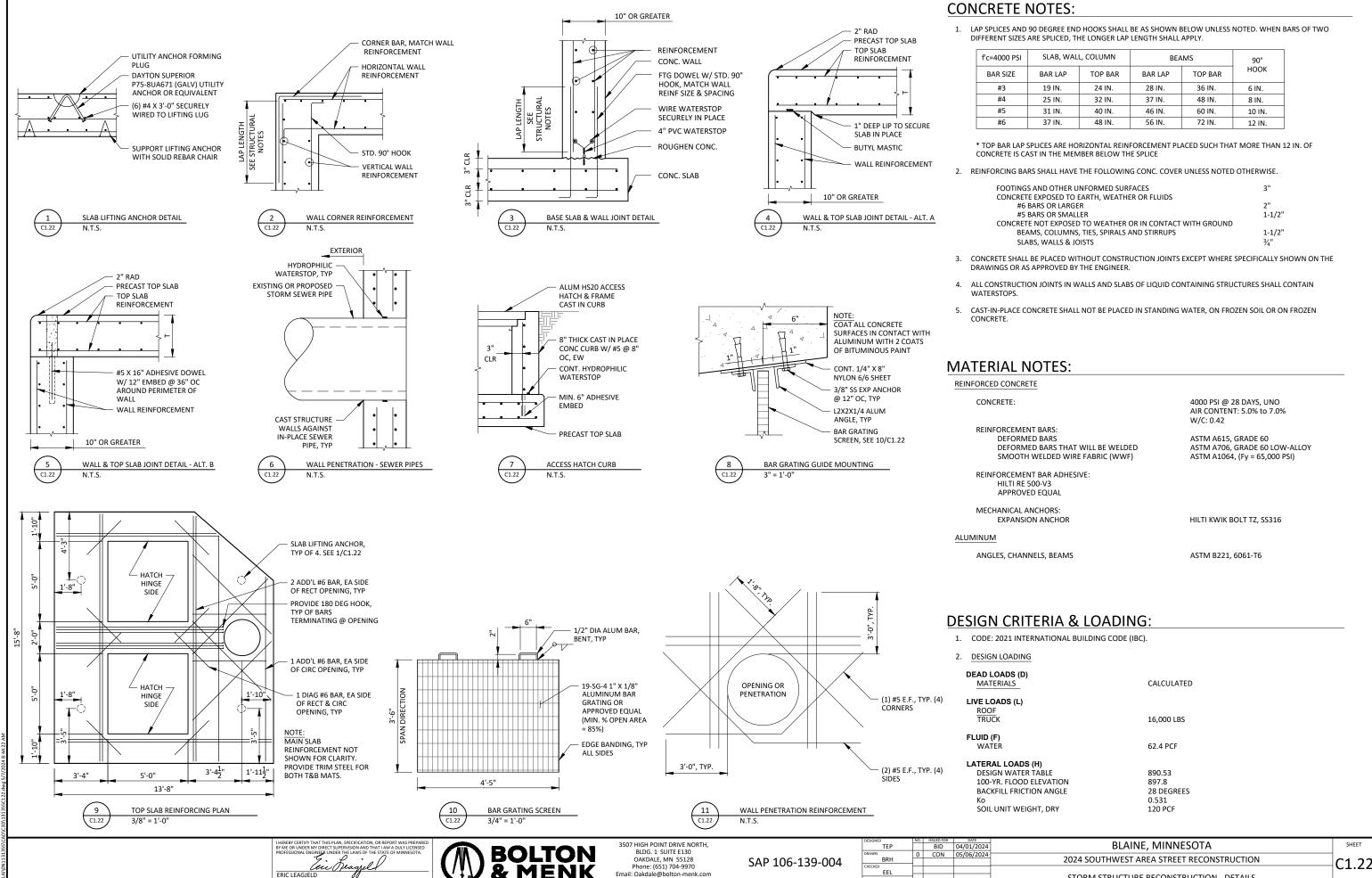
3507 HIGH POINT DRIVE NORTH OAKDALE, MINNESOTA 55128 Phone: (651) 704-9970 Email: Oakdale@bolton-menk.com www.bolton-menk.com

SAP 106-139-00

	MSN
	DRAWN
4	DJT
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	TJP
	CLIENT PROJ. NO.

BLAINE, MINNESOTA 2024 SOUTHWEST AREA STREET RECONSTRUCTION C1.20





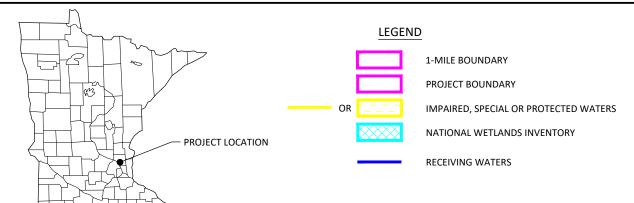
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STORM STRUCTURE RECONSTRUCTION - DETAILS

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

2024 SOUTHWEST AREA STREET **RECONSTRUCTION -2024**

CITY OF BLAINE ANOKA COUNTY, MINNESOTA



RESPONSIBLE PARTIES:

The Contractor and Owner will be joint applicants under the MPCA's General Stormwater Permit for Construction Activity as required by the National Pollutant Discharge Elimination System (NPDES) Phase II program.

The Contractor shall provide one or more trained Construction SWPPP Manager(s) knowledgeable and experienced in the application of erosion prevention and sediment control BMPs that will oversee the implementation of the SWPPP, and the installation, inspection and maintenance of the erosion prevention and sediment control BMPs.

A Construction SWPPP Manager must be available for an on-site inspection within 72 hours upon request by the MPCA.

	COMPANY	CONTACT PERSON	PHONE
OWNER:	City of Blaine	Cody Sylvester	763-785-6186
SWPPP DESIGNER:	Bolton & Menk, Inc.	Dustin DeFelice	414-373-8683
CONTRACTOR:	TBD	TBD	TBD
CONSTRUCTION SWPPP MANAGER:	TBD	TBD	TBD
PARTY RESPONSIBLE FOR LONG TERM O&M:	City of Blaine	Cody Sylvester	763-785-6186

The SWPPP Designer, Construction SWPPP Manager, and BMP Installer must have appropriate training. Documentation showing training commensurate with the job duties and responsibilities is required to be included in the SWPPP prior to any work beginning on the site. Training documentation for the SWPPP Designer is included on the Narrative sheet. The Contractor shall attach training documentation to this SWPPP for the Construction SWPPP Manager and BMP Installer prior to the start of construction. This information shall be kept up to date until the project NOT is filed.

ADDITIONAL COMPENSATION

Payment for all work associated with Erosion and Sediment Control shall be as described in the Project Manual. Unless otherwise authorized by the Owner no additional payment shall be made for any work required to administer and maintain the site erosion and sediment control in compliance with the Minnesota Pollution Control Agency (MPCA) - General Stormwater Permit for Construction Activity (MN R100001) including but not limited to inspection, maintenance, and removal of BMPs or addition of BMPs to accommodate Contractor phasing.

DOCUMENT RETENTION

Permittees must make the SWPPP, including all inspection reports, maintenance records, training records and other information required by this permit, available to federal, state, and local officials within three (3) days upon request for the duration of the permit and for three (3) years following the NOT.

GENERAL STORMWATER DISCHARGE REQUIREMENTS

All requirements listed in Section 5.1 of the Permit for the design of the permanent stormwater management system and discharge have been included in the preparation of this SWPPP. These include but are not limited to:

- 1. The expected amount, frequency, intensity, and duration of precipitation.
- The nature of stormwater runoff and run-on at the site
- Peak flow rates and stormwater volumes to minimize erosion at outlets and downstream channel and stream bank erosion.
- The range of soil particle sizes expected to be present on the site.

Permanent stormwater treatment systems for this project have been designed in accordance with the guidance in the MN Stormwater Manual in place at the time of bidding. Copies of the design information and calculations are part of this SWPPP and will be provided in digital format upon written request to the Engineer.

PROJECT AREAS:

Total Project Size (disturbed area) =	17.82	ACRES
Existing area of impervious surface =	12.62	ACRES
Post construction area of impervious surface =	12.20	ACRES
Total new impervious surface area created =	0.0	ACRES

Planned Construction Start Date: 06/01/2024 Estimated Construction Completion Date: 08/31/2025

PERMANENT STORMWATER MANAGEMENT SYSTEM:

Type of storm water management used if more than 1 acre of new impervious surface is created:

		Wet Sedimentation Basin
Г	Х	Infiltration/Filtration
Г		Regional Pond
		Permanent Stormwater Management Not Required

PROJECT LOCATION:

COUNTY	TOWNSHIP	RANGE	SECTION	LATITUDE	LONGITUDE
Anoka County	T31N	R23W	31	45.131881°	-93.251620°
Anoka County	T31N	R23W	32	45.1318	-93.2539

BMP SUMMARY	QUANTITY	UNIT
Storm Drain Inlet Protection	68	EA
Sediment Control Log (Wood Fiber, Wood Chip or Compost)	420	LF
Silt Fence	200	LF
Erosion Control Blanket	560	SY
Temporary Hydraulic Mulch Matrix	300	LB

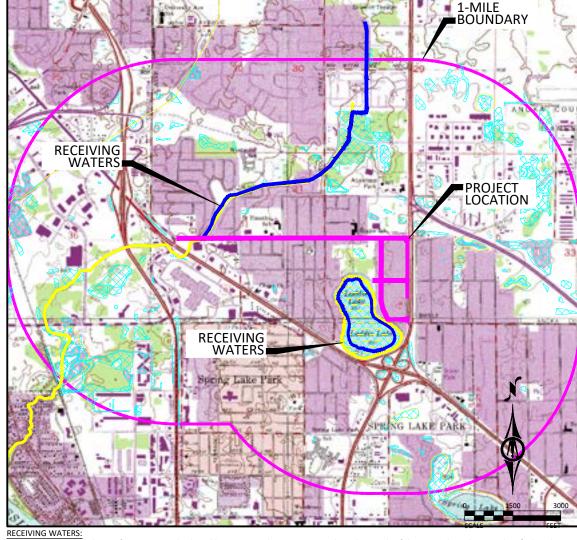
DESCRIPTION OF CONSTRUCTION ACTIVITIES AND STORMWATER MANAGEMENT:

Construction activities include: Site grading, pavement and sidewalk reconstruction, storm sewer improvements, stormwater management BMP's, temporary erosion and sediment control, permanent

Stormwater from Area-1 collects into 3 different existing trunk sewer line along 89th Ave that discharge north and south of 89th Ave. Area 2 drains into the existing storm sewer along Lincoln and 87th Ave this area discharges into Laddie Lake. Area 3 is collected into existing catch basins and discharges to Laddie Lake. Area 4 drains into existing catch basins that ultimately connect to the storm sewer system within Area 2 and discharges to Laddie Lake.

After construction is complete stormwater will remain largely unchanged. The only notable change is a small portion of drainage from Area 1 on the eastern end will be redirected to Area 2.

This project includes the following stormwater management BMPs: Linear underground infiltration cells



Receiving waters, including surface water, wetlands, Public Waters, and stormwater ponds, within 1-mile of the project boundary are identified on the USGS 7.5 min guad map above. Receiving waters that are impaired, the impairment, and WLA are listed as follows. All specific BMPs relative to construction activities listed in the permit for special, prohibited, restricted, or impaired have been incorporated into this plan. All specific BMPs listed in approved TMDLs and those BMPs listed for construction related waste load allocations have also been incorporated

NAME OF WATER BODY	TYPE (ditch, pond, wetland, lake, etc.)	Special, Prohibited, Restricted Water ¹	Flows to Impaired Water Within 1-Mile ²	USEPA Approved Construction Related TMDL ³
County Ditch 17	Ditch	No	Yes	Yes- Benthic macroinvertebrates, escherichia coli
Laddie Lake	Lake	No	Yes	None

- ¹ Special, prohibited, and restricted waters are listed in Section 23 of the MN Construction Stormwater General Permit (MNR100001).
- ² Identified as impaired under section 303 (d) of the federal Clean Water Act for phosphorus, turbidity, TSS, dissolved oxygen, and/or aquatic biota. ³ Construction Related TMDLs include those related to: phosphorus, turbidity, TSS, dissolved oxygen, and/or aquatic biota.

IMPLEMENTATION SCHEDULE AND PHASING: The Contractor is required to provide an updated schedule and site management plan neeting the minimum requirements of Section 1717 of the Minnesota Standard Specifications for Construction.

- 1) Submit SWPPP Updates to Engineer. Submittal shall include any requested changes to the SWPPP, including but not limited to: Trained Personnel, Locations for Stockpiles, Concrete Washout, Sanitation Facilities, Types and Locations of Erosion & Sediment Control. Failure to submit updates shall be considered acceptance of the SWPPP as designed with no changes.
- Install perimeter sediment control, inlet protection, and construction exit.
- Demolish roads and sidewalk for road and sidewalk reconstruction. Install stormsewer improvments
- Complete site grading
- Repave new roadway surface Add additional temporary BMPs as necessary during construction based on inspection reports.
- Ensure final stabilization measures are complete.
- Provide digital copy of all Field SWPPP Documentation including Inspection Reports and SWPPP Revisions to the Owner.
- 10) Submit Notice of Termination (NOT) to MPCA. NOTE: The NOT must be submitted to MPCA before Final Stabilization is





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SAP 106-139-004

IGNED	NO.	ISSUED FOR	DATE	DI AINIE AMAINIECOTA	
MSN		BID	04/01/2024	BLAINE, MINNESOTA	SHEET
DJT	0	CON	05/06/2024	2024 SOUTHWEST AREA STREET RECONSTRUCTION	C2 01
TJP				STORMWATER POLLUTION PREVENTION PLAN	C2.01
NT PROJ. NO. 24-07				PROJECT IMFORMATION AND LOCATION MAP, SWPPP	

Information contained in this SWPPP narrative sheet summarizes requirements of the GENERAL PERMIT AUTHORIZATION TO DISCHARGE STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM/STATE DISPOSAL SYSTEM PROGRAM - Permit No: MN RI00001 (Permit) as they apply to this project. All provisions of the Permit including those not specifically cited herein shall apply to this project. The Contractor is responsible to be familiar with and comply with all conditions of the permit. The full text of the Permit is available at: https://www.pca.state.mn.us/sites/default/files/wq-strm2-80a.pdf

SWPPP AMENDMENTS AND SUBMITTALS

Contractor must prepare and submit to the Engineer a SWPPP amendment as necessary to include additional Best Management Practices (BMPs) to correct problems identified or address the following situations.

- 1. Contact information and training documentation for Construction SWPPP Manager and BMP Installer,
- 2. There is a change in construction method of phasing, operation, maintenance, weather or seasonal conditions not anticipated during the design of the SWPPP including but not limited to:
 - a. Types and/or Locations of BMPs
 - b. Material Storage and Spill Response
 - c. Fueling Plans
 - d. Locations for Stockpiles, Concrete Washout, and Sanitation Facilities and
 - e. Project Phasing
- 3. It is determined that the SWPPP is not achieving objectives of minimizing pollutants in stormwater discharges associated with construction activity. or
- 4. The SWPPP is not consistent with the terms and conditions of the permit.

The Contractor may implement SWPPP amendments immediately and is not required to wait for Engineer review of the submittal. The responsibility for completeness of SWPPP amendments and compliance with the Permit lies with the Contractor. Review, comment, or lack of comment by the Engineer on a SWPPP amendment shall not absolve the responsibilities of the Contractor in any way.

If a change order is issued for a design change the SWPPP amendment will be prepared by the Engineer and included in the change order.

In addition to SWPPP amendments, the Contractor shall submit to the Engineer Weekly Erosion and Sediment Control Schedule meeting the requirements of MnDOT 1717.

The Contractor shall keep copies of all SWPPP amendments, Weekly Erosion and Sediment Control Schedules, inspection logs, and maintenance logs with the field copy of the SWPPP. A PDF copy of these documents will be provided along with a copy of the final Field Copy of the SWPPP to the Engineer along with the signed Notice of Termination when final stabilization is complete.

EROSION PREVENTION PRACTICES

Stormwater conveyance channels shall be routed around unstabilized areas. Erosion controls and velocity dissipation devices shall be used at outlets within and along the length of any constructed conveyance channel.

The normal wetted perimeter of all ditches or swales, including storm water management pond slopes, that drain waters from the site must be stabilized within 200' of any property edge or discharge point, including storm sewer inlets, within 24 hours of connection

Temporary or permanent ditches or swales used as sediment containment during construction do not need to be stabilized during temporary period of use and shall be stabilized within 24 hours after no longer used as sediment containment.

Mulch, hydromulch, tackifier, or similar practice shall not be used in any portion of the wetted perimeter of a temporary or permanent drainage ditch or swale section with a continuous slope of greater than 2 percent.

Energy dissipation shall be installed at all temporary or permanent pipe outlets within 24 hours of connection to a surface water or permanent stormwater treatment system.

The Contractor shall phase construction and use construction methods to the extent practical to minimize exposed soils. The project phasing shall be documented in the Weekly Erosion and Sediment Control Schedule.

SEDIMENT CONTROL PRACTICES

Down gradient BMPs including perimeter BMPs must be in place before up gradient land- disturbing activities begin and shall remain in place until final stabilization.

All BMPs that have been adjusted or removed to accommodate short-term activities shall be re-installed or replaced the earlier of the end of the work day or before the next precipitation event even if the activity is not complete.

Inlet BMPs may be removed for specific safety concerns. The BMPs shall be replaced as soon as the safety concern is resolved. The removal shall be documented in the SWPPP as a SWPPP amendment.

Temporary stockpiles must have sediment control BMPs. The Contractor shall prepare and submit to the Engineer a SWPPP amendment showing the location of temporary stockpiles and the BMPs for each stockpile. The SWPPP amendment must meet the minimum requirements of Section 9 of the Permit.

Soil compaction shall be minimized and topsoil shall be preserved, unless infeasible or if construction activities dictate soil compaction or topsoil stripping.

The use of polymers, flocculants, or other sedimentation treatment chemicals are not proposed as part of this SWPPP as designed by the Engineer. If methods or phasing of construction require the use of any of these chemicals, the Contractor shall prepare and submit to the Engineer a SWPPP amendment that meets the minimum requirements of Section 9 of the Permit.

TEMPORARY SEDIMENTATION BASINS

A temporary sedimentation basin has not been included in this SWPPP as designed by the Engineer. If a basin is later determined to be desirable or necessary the Contractor shall prepare and submit to the Engineer a SWPPP amendment. Temporary sedimentation basins shall meet or exceed the minimum requirements of Section 14 of the Permit and shall include a basin draining plan meeting or exceeding the minimum requirements of Section 10 of the Permit. Where the site discharges to Special and/or Impaired Waters the SWPPP amendment shall also meet or exceed the minimum requirements of Section 23 of the

DEWATERING

A dewatering plan has not been included in this SWPPP as designed by the Engineer. If dewatering is required for this project, the Contractor shall prepare and submit to the Engineer a SWPPP amendment. All dewatering shall meet or exceed the minimum requirements of Section 10 of the Permit.

POLLUTION PREVENTION

Products and materials that have the potential to leach pollutants that are stored on the site must be stored in a manner designed to minimize contact with stormwater. Materials that are not a source of potential contamination to stormwater or that are designed for exposure to stormwater are not required to be covered.

Hazardous materials including but not limited to pesticides, fertilizer, petroleum products, curing compounds and toxic waste must be properly stored and protected from stormwater exposure as recommended by the manufacturer in an access restricted area.

Solid waste must be stored, collected and disposed of in compliance with Minnesota Administrative Rules Chapter 7035.

Portable toilets must be positioned so that they are secure and will not be tipped or knocked over. Sanitary waste must be disposed of properly in accordance with Minn. R. CH 7041.

Exterior vehicle or equipment washing on the project site shall be limited to a defined area of the site. No engine degreasing is allowed on site. A sign must be installed adjacent to each washout facility that requires site personnel to utilize the proper facilities for disposal of concrete and other washout wastes.

The Contractor shall prepare and submit a SWPPP amendment detailing the location and BMPs proposed for storage of materials, solid waste, portable toilets, and exterior vehicle or equipment washing on the site. The SWPPP amendment shall include a spill prevention and response plan that is appropriate for the materials proposed to be on the site. The SWPPP amendment shall meet or exceed the minimum requirements of Section 12 of the Permit.

INSPECTION & MAINTENANCE

A trained person shall routinely inspect the entire construction site at the time interval indicated on this sheet of the SWPPP during active construction and within 24-hours after a rainfall event greater than 0.5 inches in 24 hours. Following an inspection that occurs within 24-hours after a rainfall event, the next inspection must be conducted at the time interval indicated in the Receiving Waters Table found on the SITE PLAN AND INFORMATION SHEET of the SWPPP.

All inspections and maintenance conducted during construction must be recorded on the day it is completed and must be retained with the SWPPP. Inspection report forms are available in the Project Specifications. Inspection report forms other than those provided shall be approved by the engineer.

The Contractor may request a change in inspection schedule for the following conditions:

- a. Inspections of areas with permanent cover to be reduced to once per month,
- b. Inspections of areas that have permanent cover and have had no construction activity for 12 months to be suspended until construction resumes,
- c. Inspections of areas where construction is suspended due to frozen ground conditions, inspections to be suspended until the earlier of within 24 hours of runoff occurring, or upon resuming construction.

No change in inspection schedule shall occur until authorized by the Engineer.

Inspections must include

- 1. All erosion prevention and sediment control BMPs and Pollution Prevention Management Measures to ensure integrity and effectiveness.
- 2. Surface waters, including drainage ditches and conveyance systems for evidence of erosion and sediment deposition.
- 3. Construction site vehicle exit locations, streets and curb and gutter systems within and adjacent to the project for sedimentation from erosion or tracked sediment from vehicles.
- 4. Infiltration areas to ensure that no sediment from ongoing construction activity is reaching the infiltration area and that equipment is not being driven across the infiltration area.

All non-functioning BMPs and those BMPs where sediment reaches one-half (1/2) of the depth of the BMP, or in the case of sediment basins one-half (1/2) of the storage volume, must be repaired, replaced, or supplemented by the end of the next business day after discovery, or as soon as field conditions allow.

Permittees must repair, replace or supplement all nonfunctional BMPs with functional BMPs by the end of the next business day after discovery, or as soon as field conditions allow.

Any sediment that escapes the site must be removed and the area stabilized within 7 calendar days of discovery unless precluded by legal, regulatory, or physical access in which case the work shall be completed within 7 calendar days of authorization. Paved surfaces such as streets shall have any escaped or tracked sediment removed by the end of the day that it is discovered. Sediment release, other than paved surfaces that can be cleaned up with street sweeping shall be reported immediately upon discovery to the Engineer.

PUBLIC WATER RESTRICTIONS:

For public waters that have been promulgated "work in water restrictions" during fish spawning time frames, all exposed soil areas that are within 200 feet of the water's edge, and drain to these waters must complete stabilization within 24-hours during the time period. MN DNR permits are not valid for work in waters that are designated as infested waters unless accompanied by an Infested Waters Permit or written notification has been obtained from MN DNR stating that such permit is not required. There is no exception for pre-existing permits. If a MN DNR Permit has been issued for the project and the water is later designated as infested, the Contractor shall halt all work covered by the MN DNR Permit until an Infested Waters Permit is obtained or that written notification is obtained stating that such permit is not required.

FINAL STABILIZATION

Final Stabilization is not complete until all the following requirements have been met:

- 1. Substantial Completion has been reached and no ground disturbing activities are anticipated.
- Permanent cover has been installed with an established minimum uniform perennial vegetation density of 70 percent of its expected final growth. Vegetation is not required in areas where no vegetation is proposed by this project such as impervious surfaces or the base of a sand filter.

- 3. Accumulated sediment has been removed from all permanent stormwater treatment systems as necessary to ensure the system is operating as designed.
- 4. All sediment has been removed from conveyance systems
- 5. All temporary synthetic erosion prevention and sediment control BMPs have been removed. BMPs designated on the SWPPP to remain to decompose on-site may remain.
- 6. For residential construction only, permit coverage terminates on individual lots if the structures are finished and temporary erosion prevention and downgradient perimeter control is complete, the residence sells to the homeowner, and the permittee distributes the MPCA's "Homeowner Fact Sheet" to the homeowner.
- 7. For agricultural land only (e.g., pipelines across cropland), the disturbed land must be returned to its preconstruction agricultural use prior to submitting the NOT.

SITE STABILIZATION COMPLETION:

Stabilization of exposed soils shall begin immediately and shall be	
completed after the construction activity has temporarily or	7 calendar days
permanently ceased no later than:	

SITE INSPECTION INTERVAL:

A trained person shall routinely inspect the entire construction site during active construction at an interval of no more than:	7 calendar days

SPECIAL ENVIRONMENTAL CONSIDERATIONS AND PERMITS:

1)	Was an environmental review required for this project or any part of a common plan of development or sale that includes all or any portion of this project?	NO
2)	Does any portion of the site have the potential to affect threatened or endangered species or their critical habitat?	NO
3)	Does any portion of this site discharge to a Calcareous fen.	NO
4)	Will any portion of the site potentially affect properties listed on the National Register of Historic Places or a known or discovered archeological site?	NO
5)	Have any Karst features have been identified in the project vicinity?	NO
6)	Is compliance with temporary or permanent stormwater management design requirements infeasible for this project?	NO
7)	Has the MN DNR promulgated "work in water restrictions" for any Public Water this site disharges to during fish spawning?	NO

TYPE OF PERMIT	PERMITTING AGENCY	PERMIT STATUS AND CONDITIONS	
Construction Stormwater NPDES	MPCA	In progress	
Stormwater Permit	CCWD	In progress	

SWPPP DESIGNER TRAINING DOCUMENTATION:

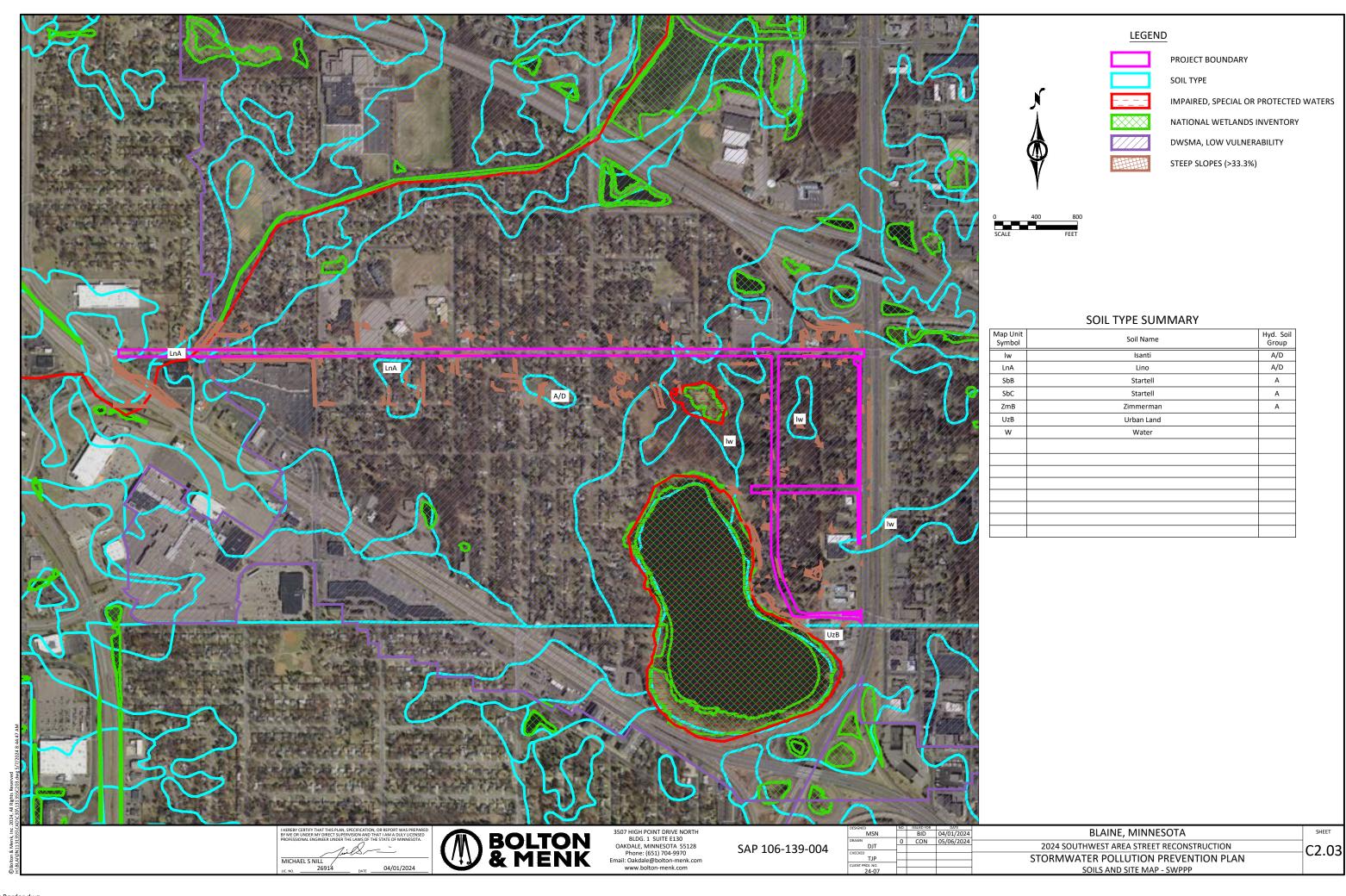


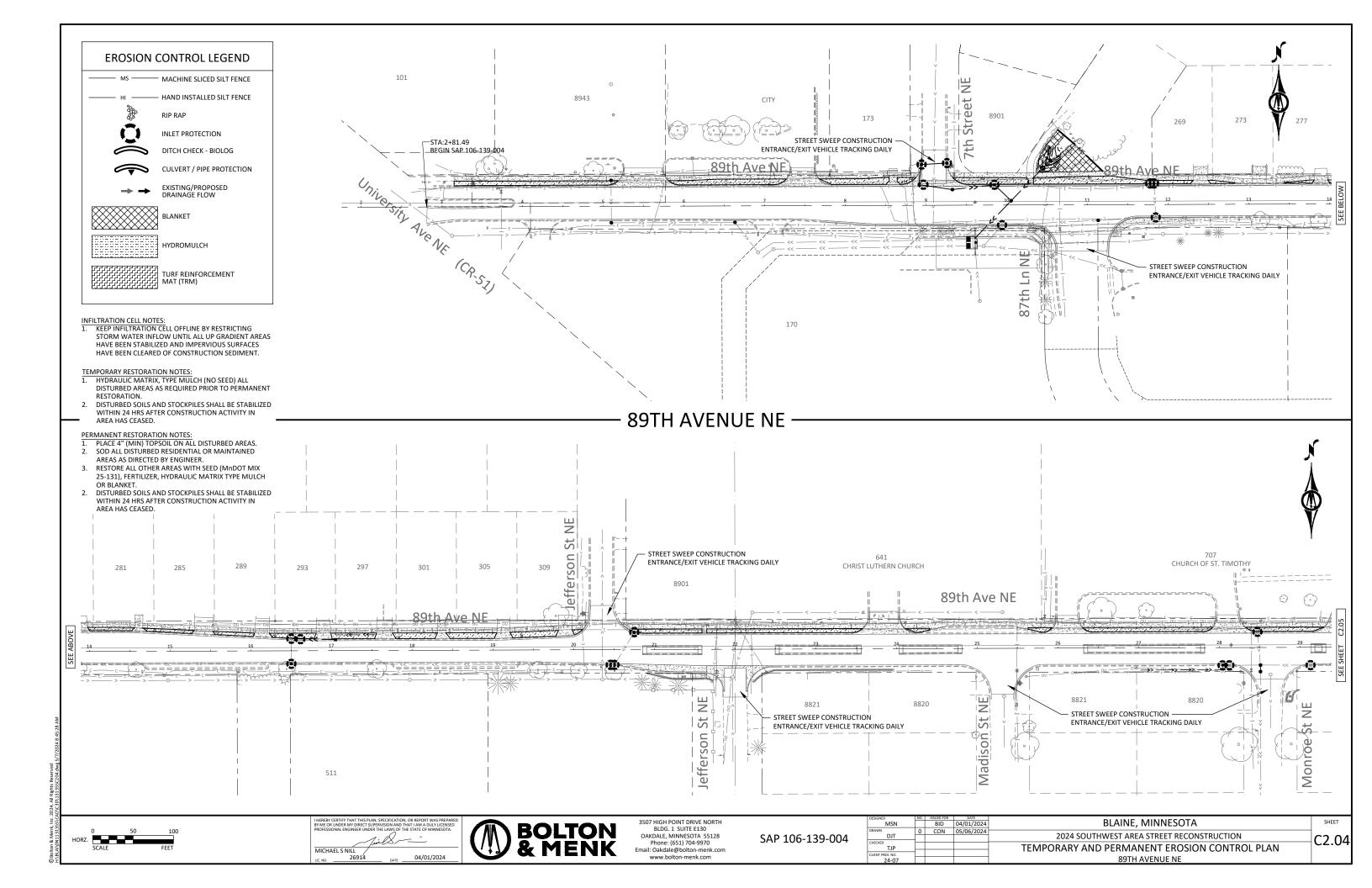
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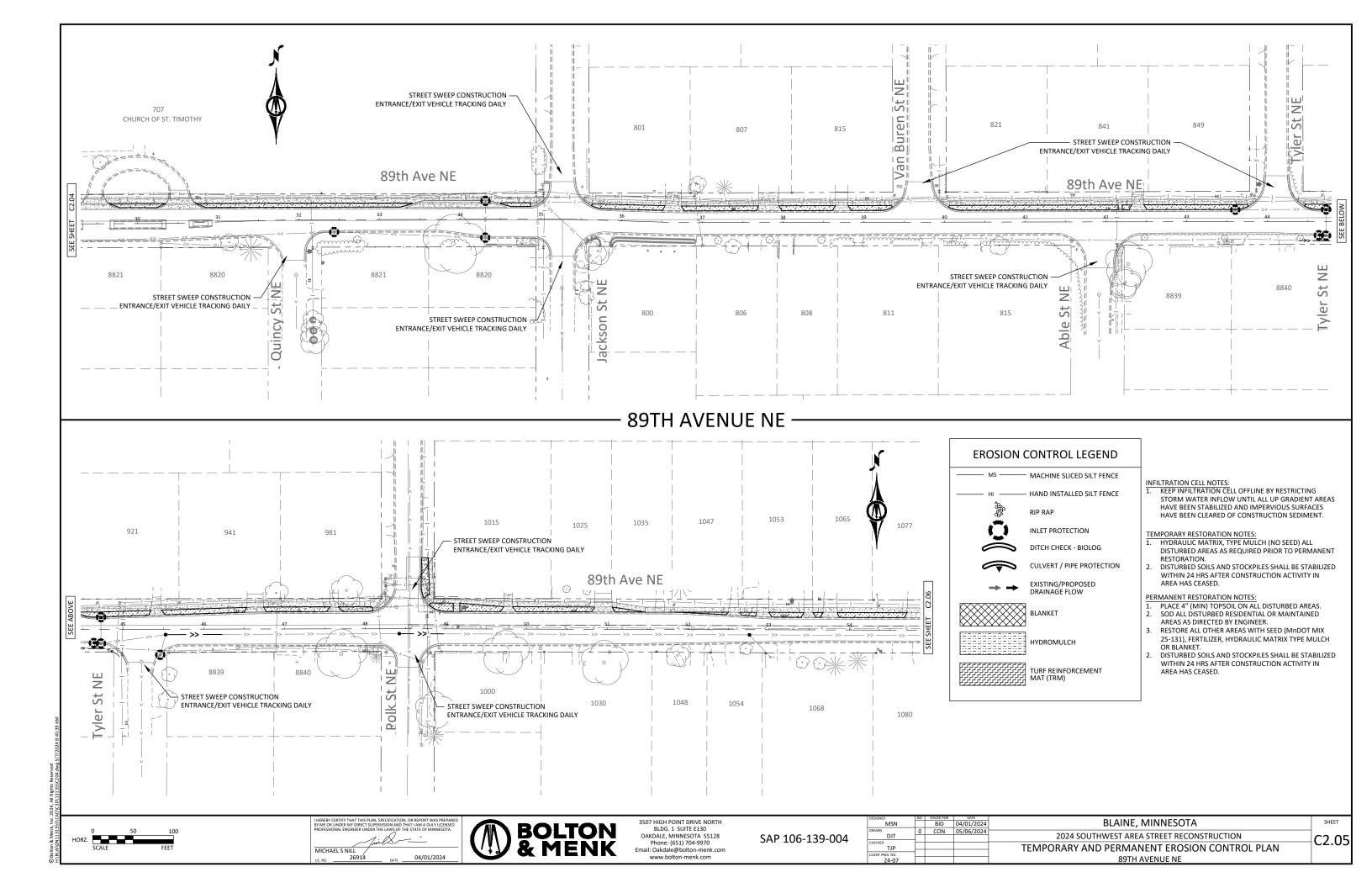
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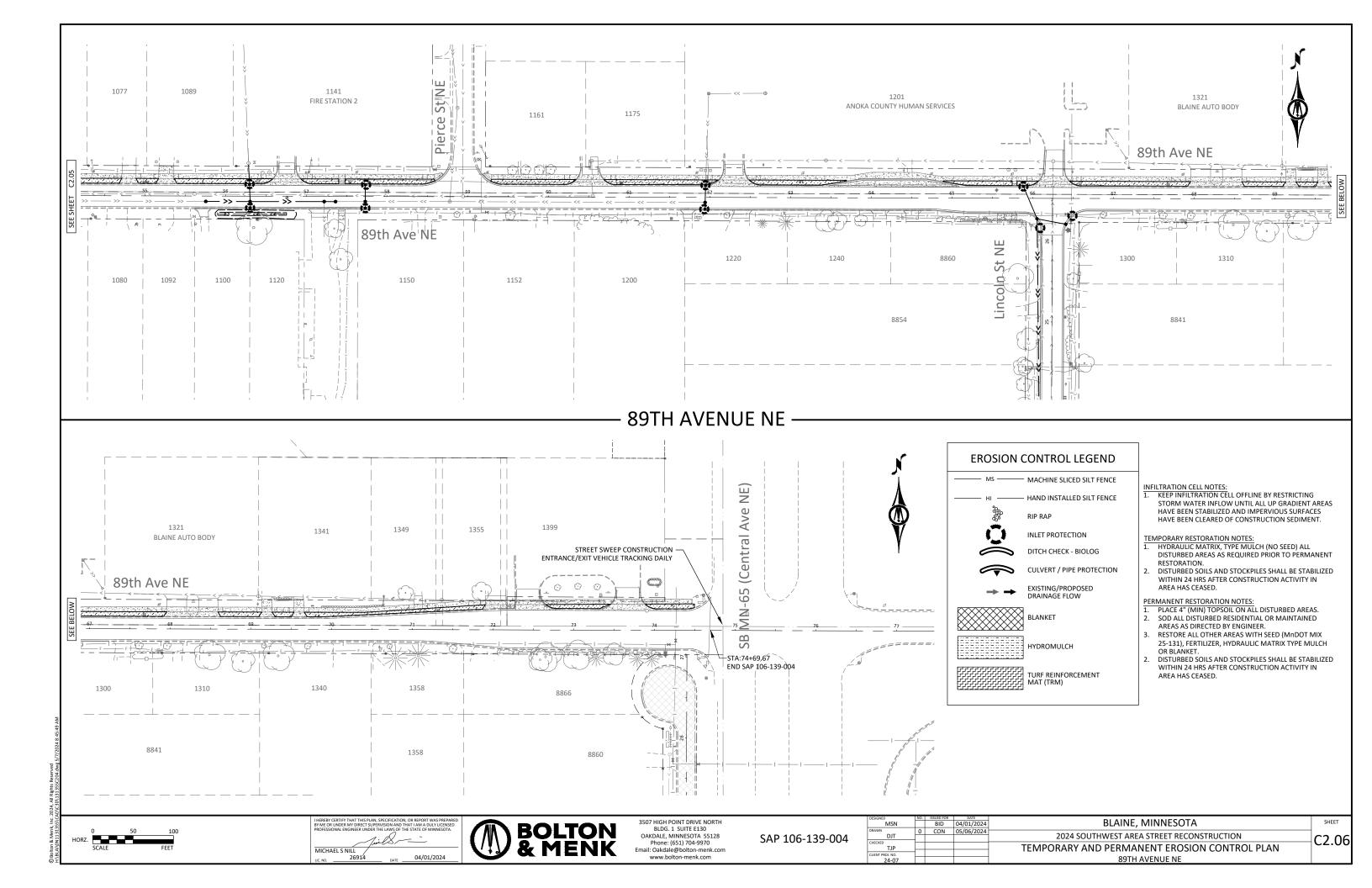
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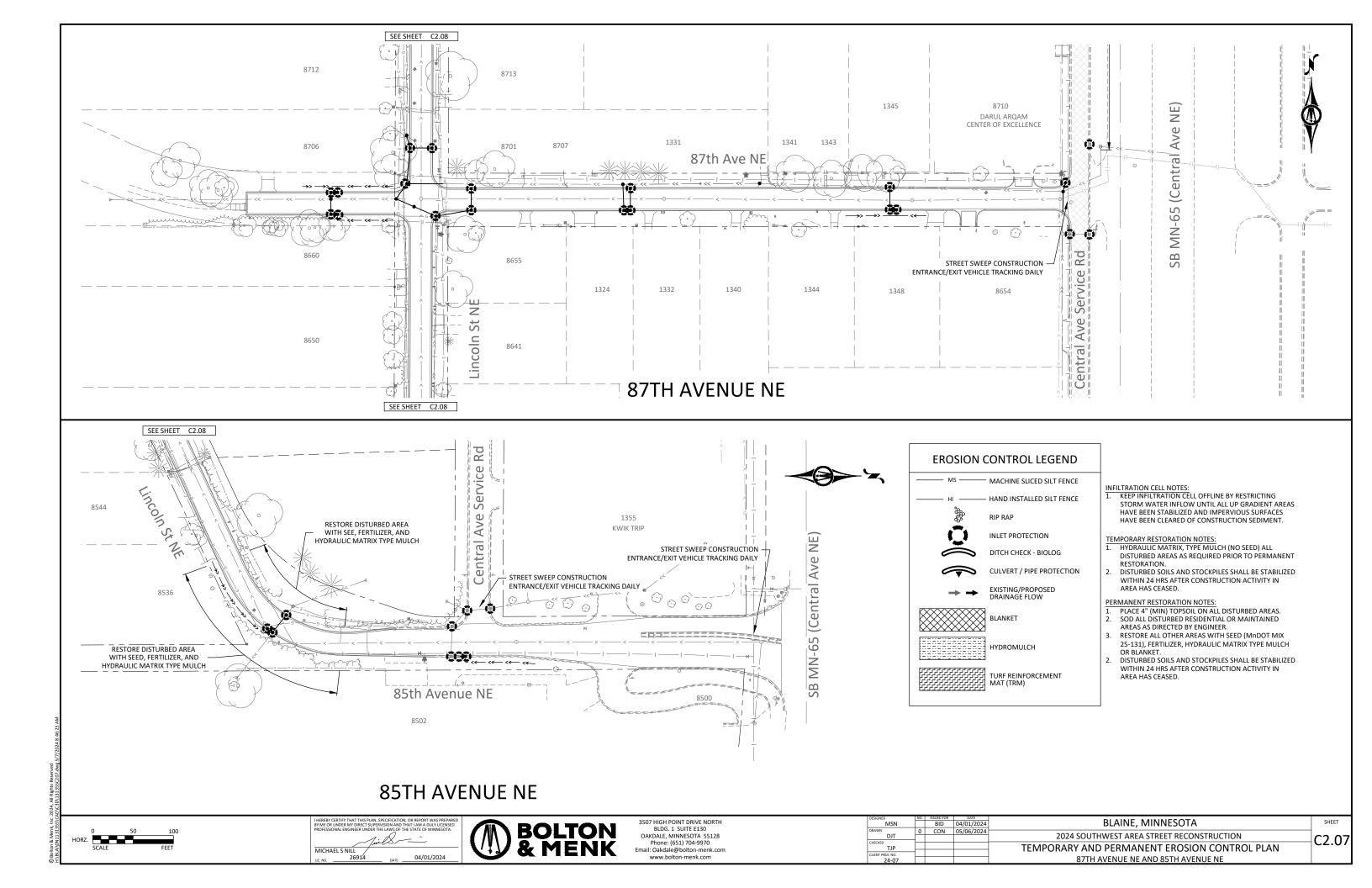
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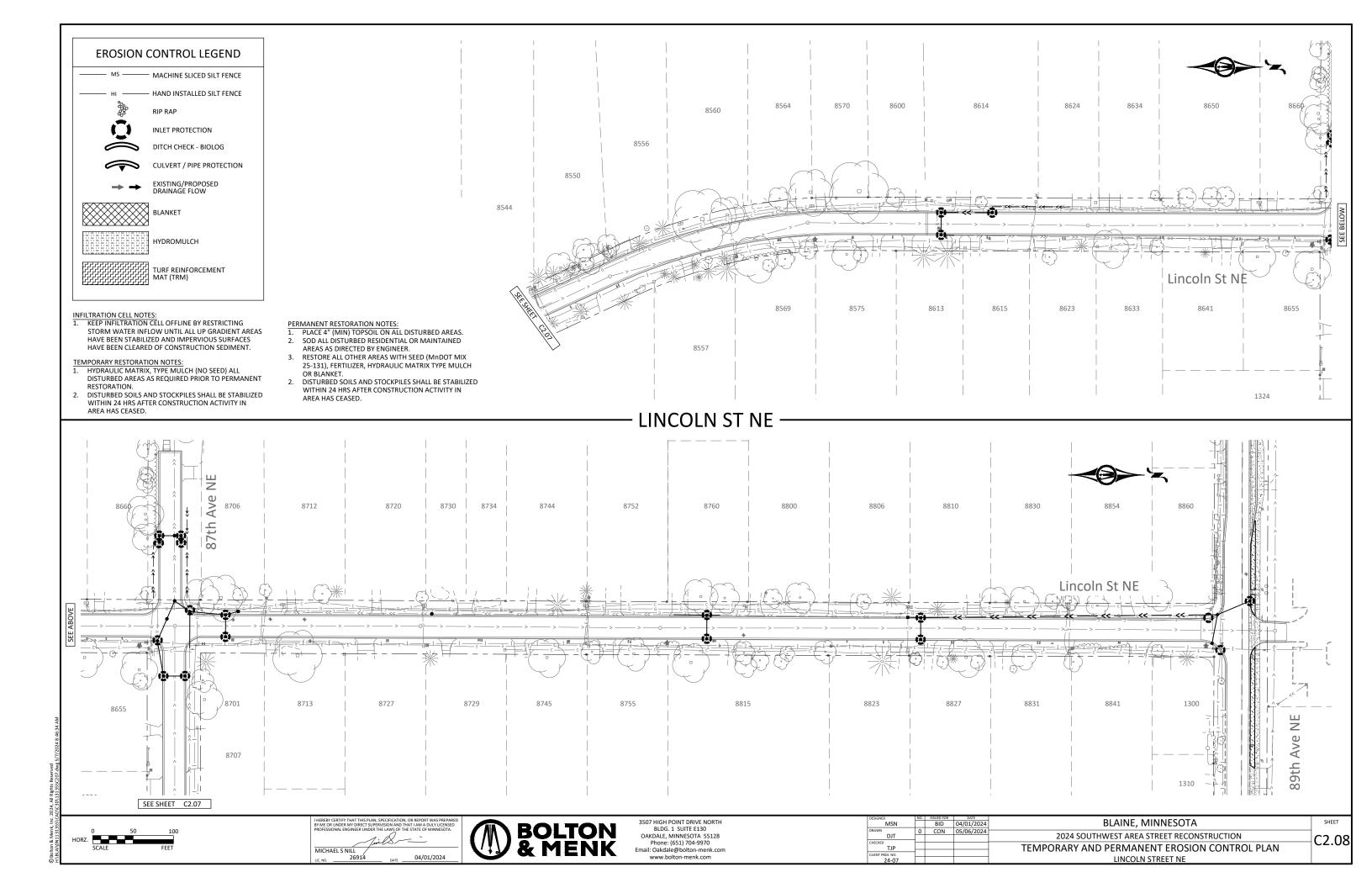


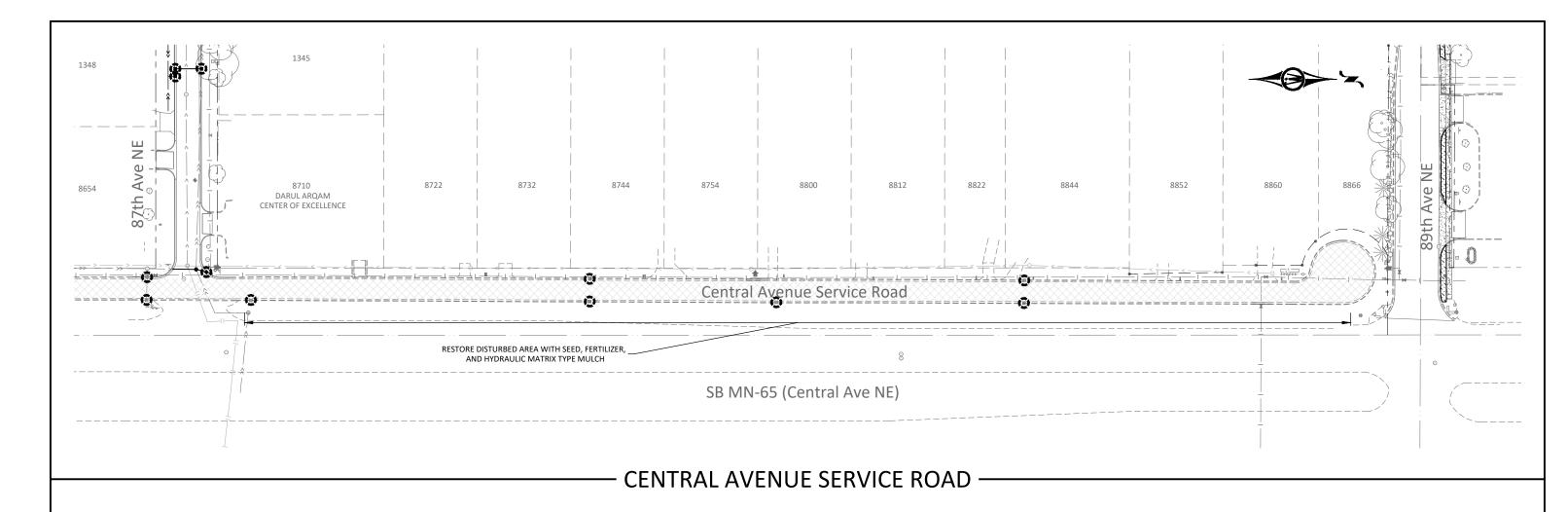


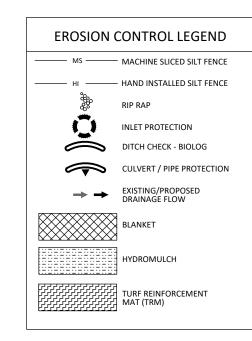












INFILTRATION CELL NOTES:

1. KEEP INFILTRATION CELL OFFLINE BY RESTRICTING STORM WATER INFLOW UNTIL ALL UP GRADIENT AREAS HAVE BEEN STABILIZED AND IMPERVIOUS SURFACES HAVE BEEN CLEARED OF CONSTRUCTION SEDIMENT.

TEMPORARY RESTORATION NOTES: HYDRAULIC MATRIX, TYPE MULCH (NO SEED) ALL

- DISTURBED AREAS AS REQUIRED PRIOR TO PERMANENT RESTORATION.
- DISTURBED SOILS AND STOCKPILES SHALL BE STABILIZED WITHIN 24 HRS AFTER CONSTRUCTION ACTIVITY IN AREA HAS CEASED.

PERMANENT RESTORATION NOTES:

- PLACE 4" (MIN) TOPSOIL ON ALL DISTURBED AREAS.
 SOD ALL DISTURBED RESIDENTIAL OR MAINTAINED. AREAS AS DIRECTED BY ENGINEER.
- RESTORE ALL OTHER AREAS WITH SEED (MnDOT MIX 25-131), FERTILIZER, HYDRAULIC MATRIX TYPE MULCH OR BLANKET.

C2.09

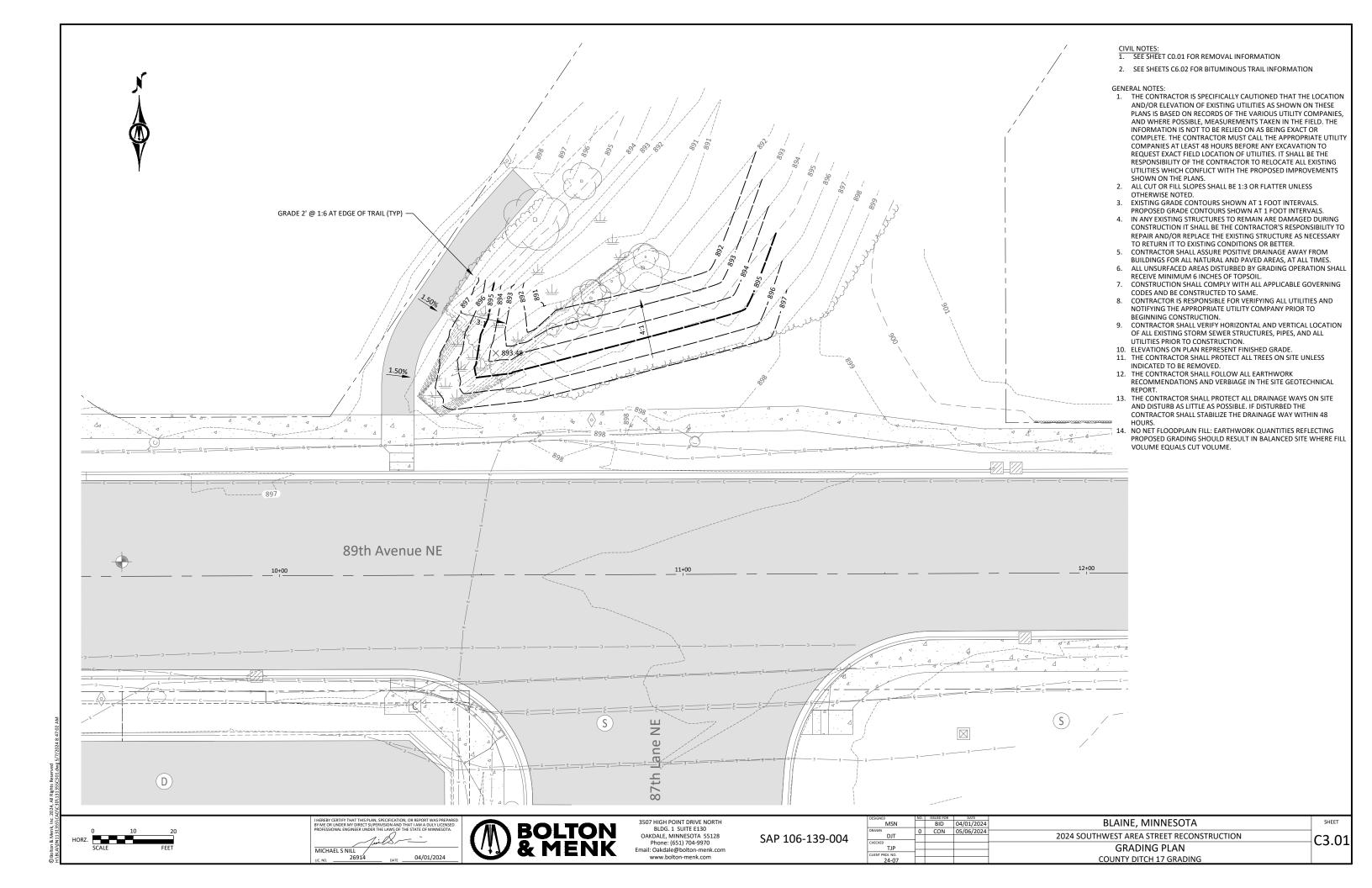
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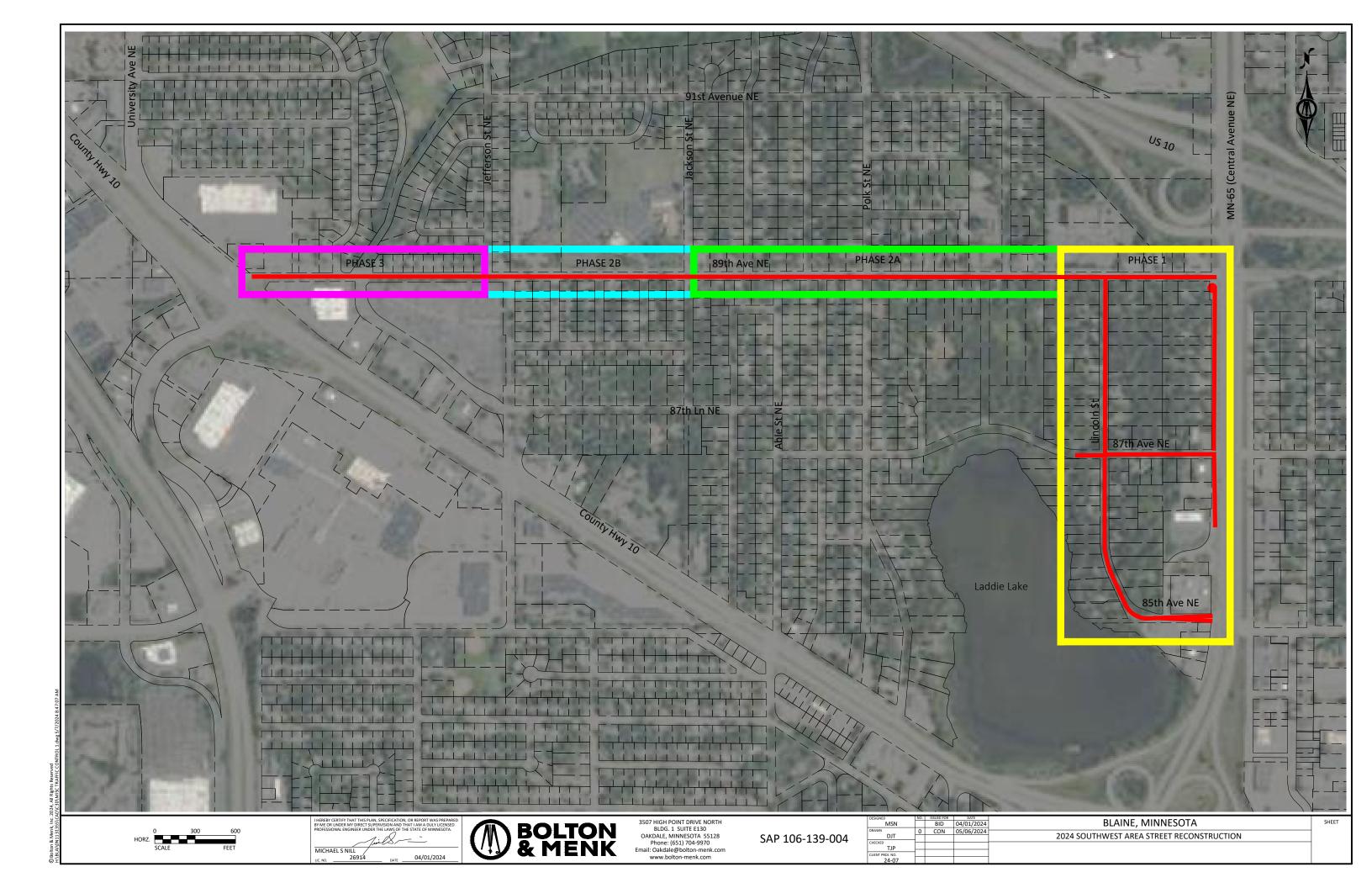


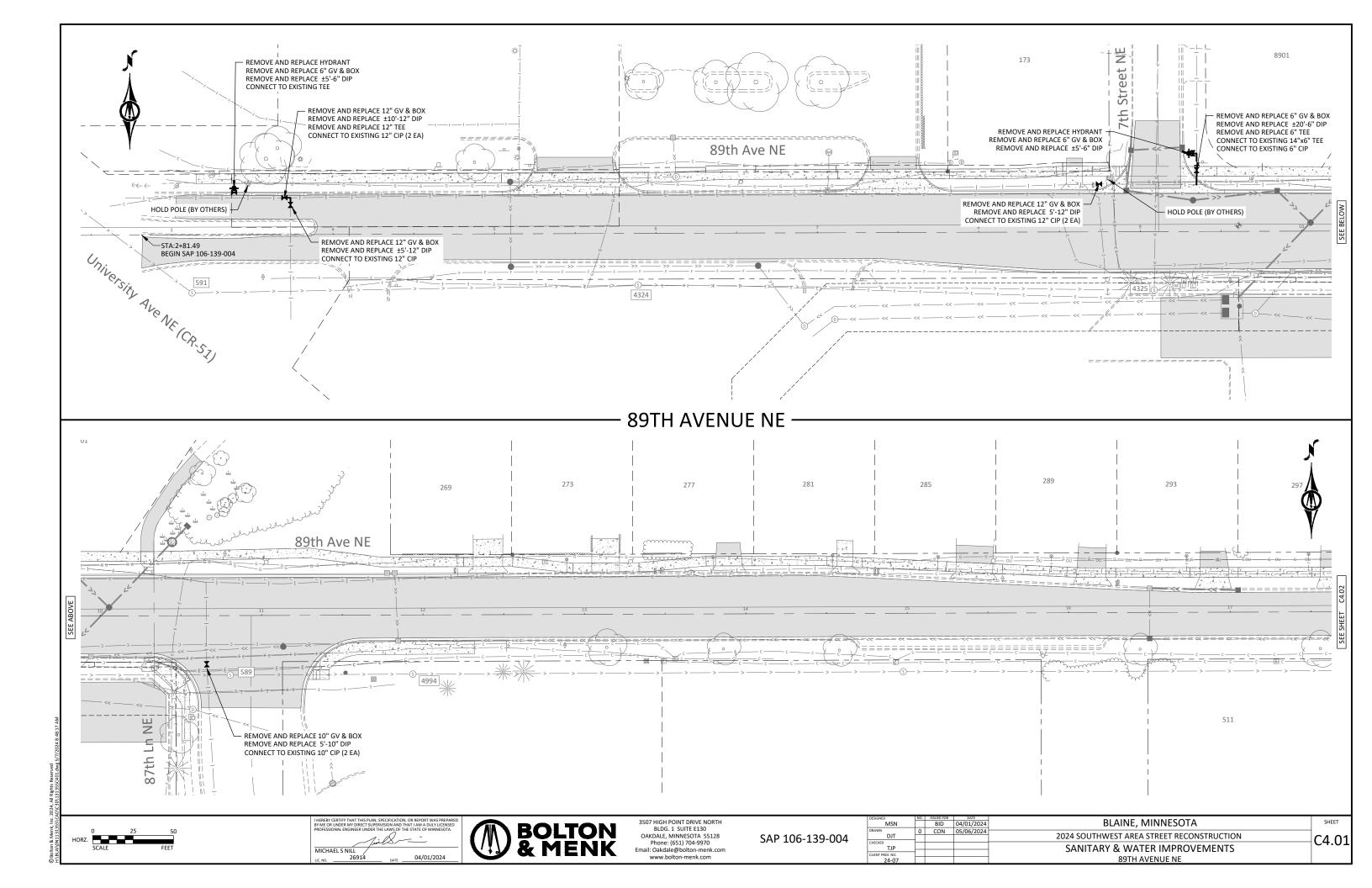


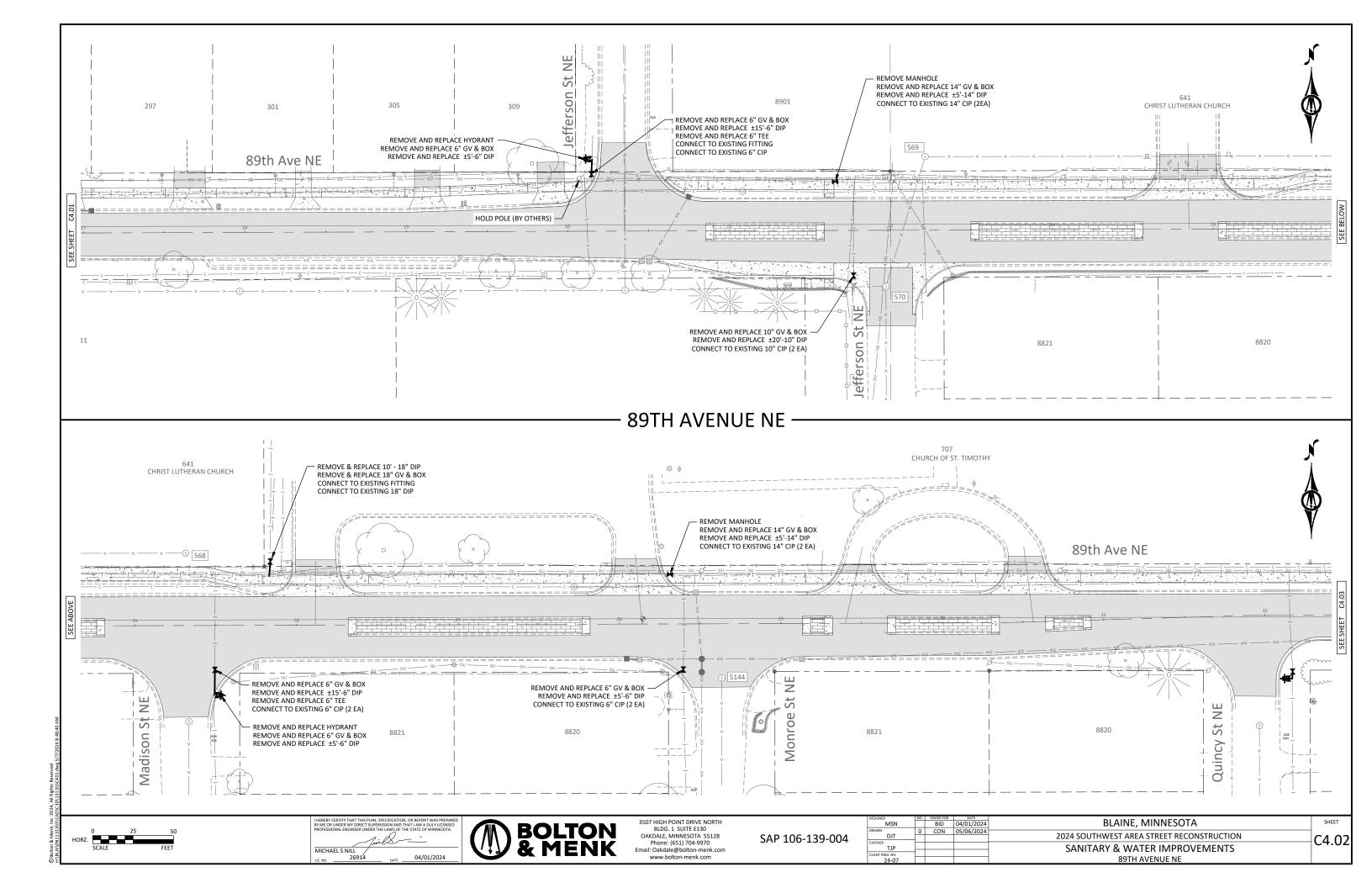
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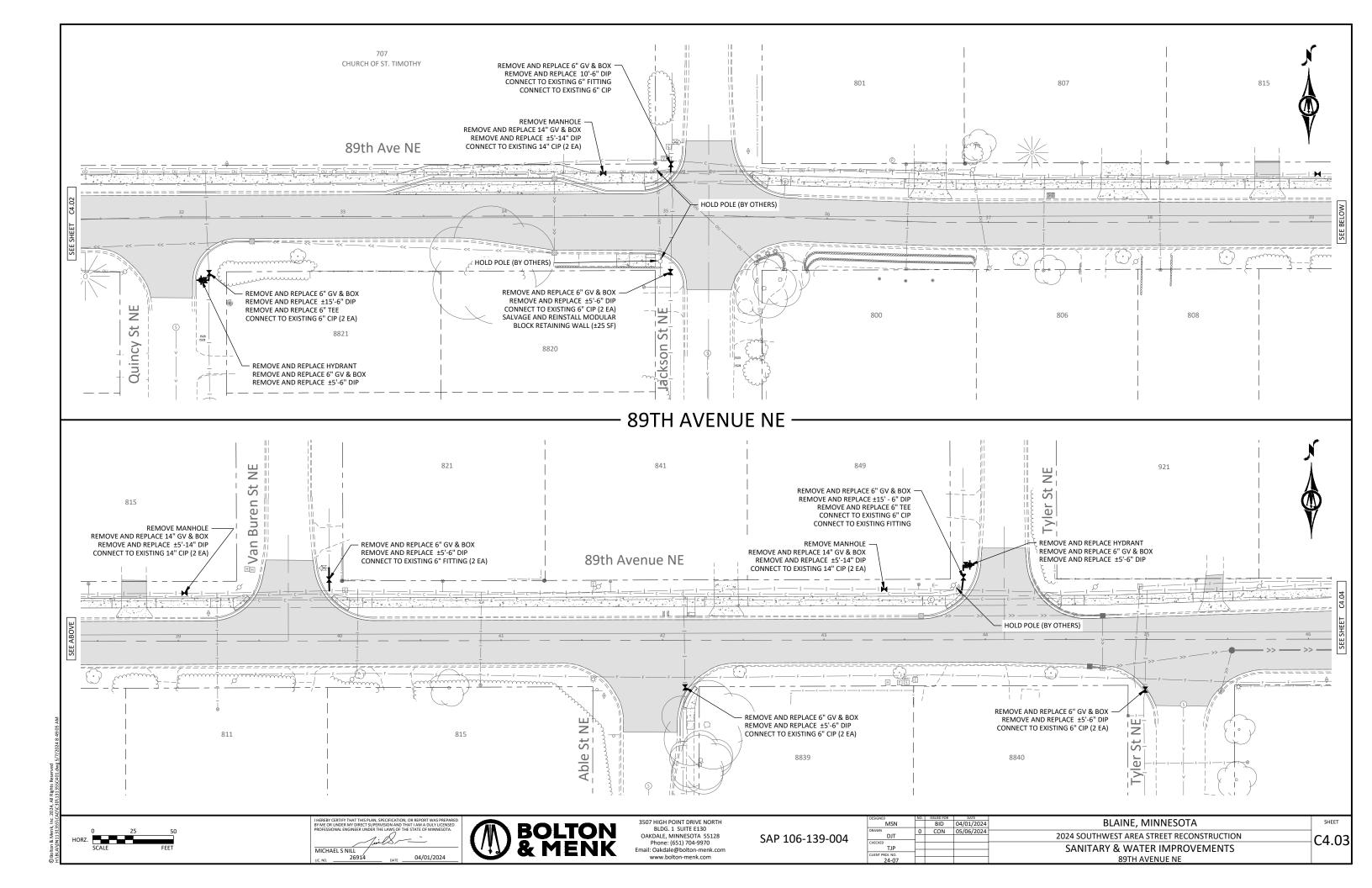
BLAINE, MINNESOTA MSN DJT 2024 SOUTHWEST AREA STREET RECONSTRUCTION TEMPORARY AND PERMANENT EROSION CONTROL PLAN CENTRAL AVENUE SERVICE ROAD

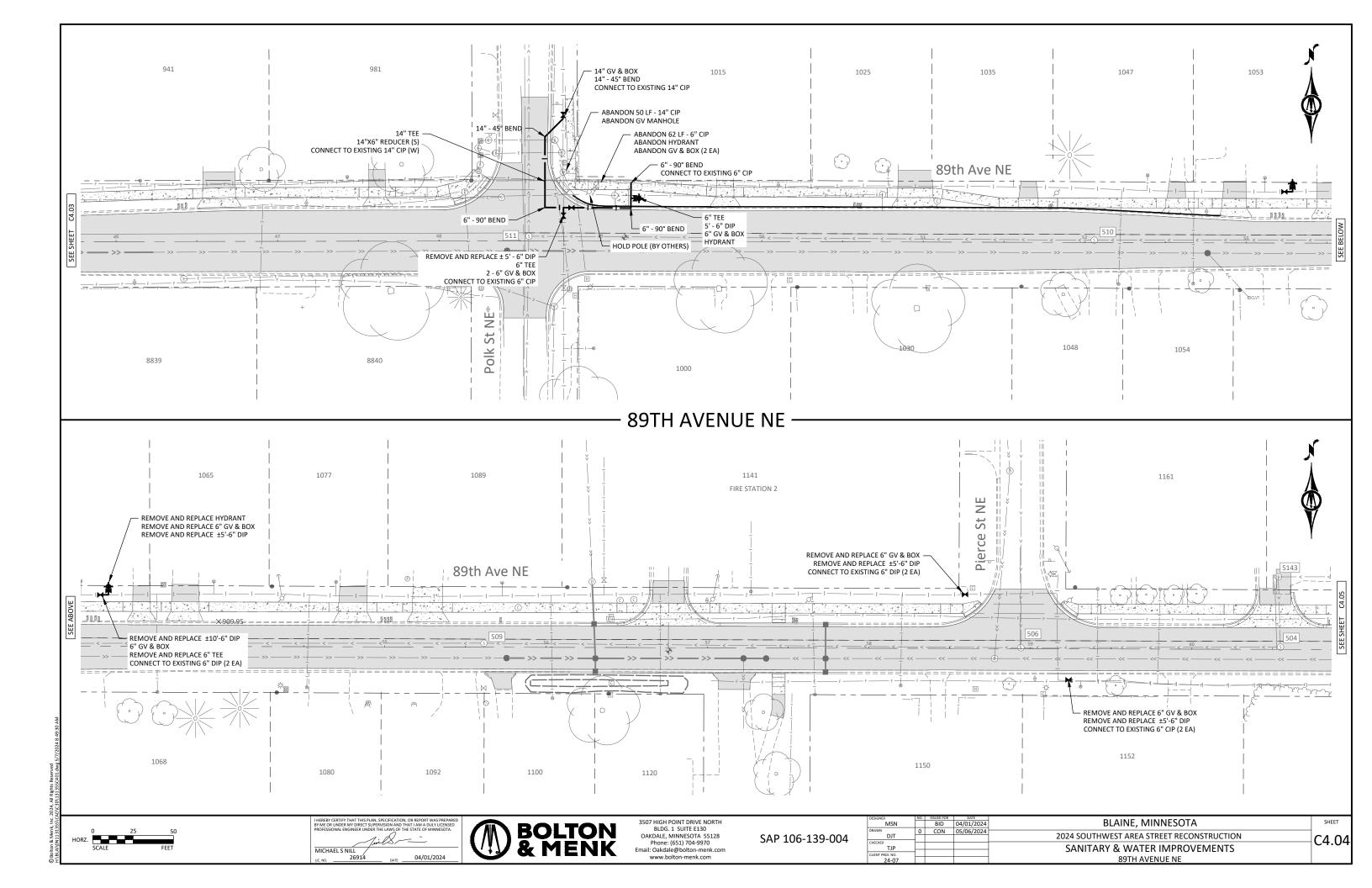


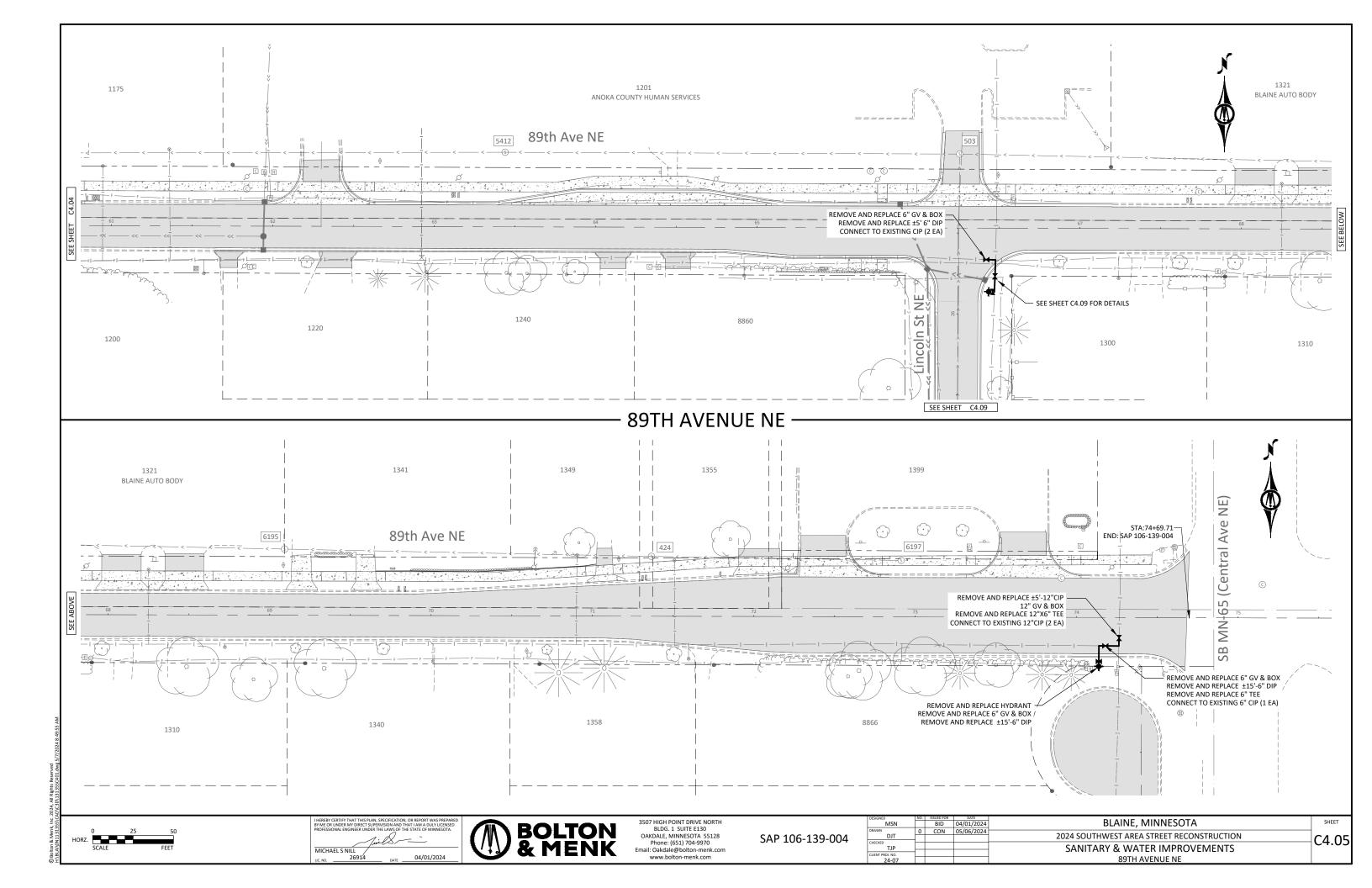


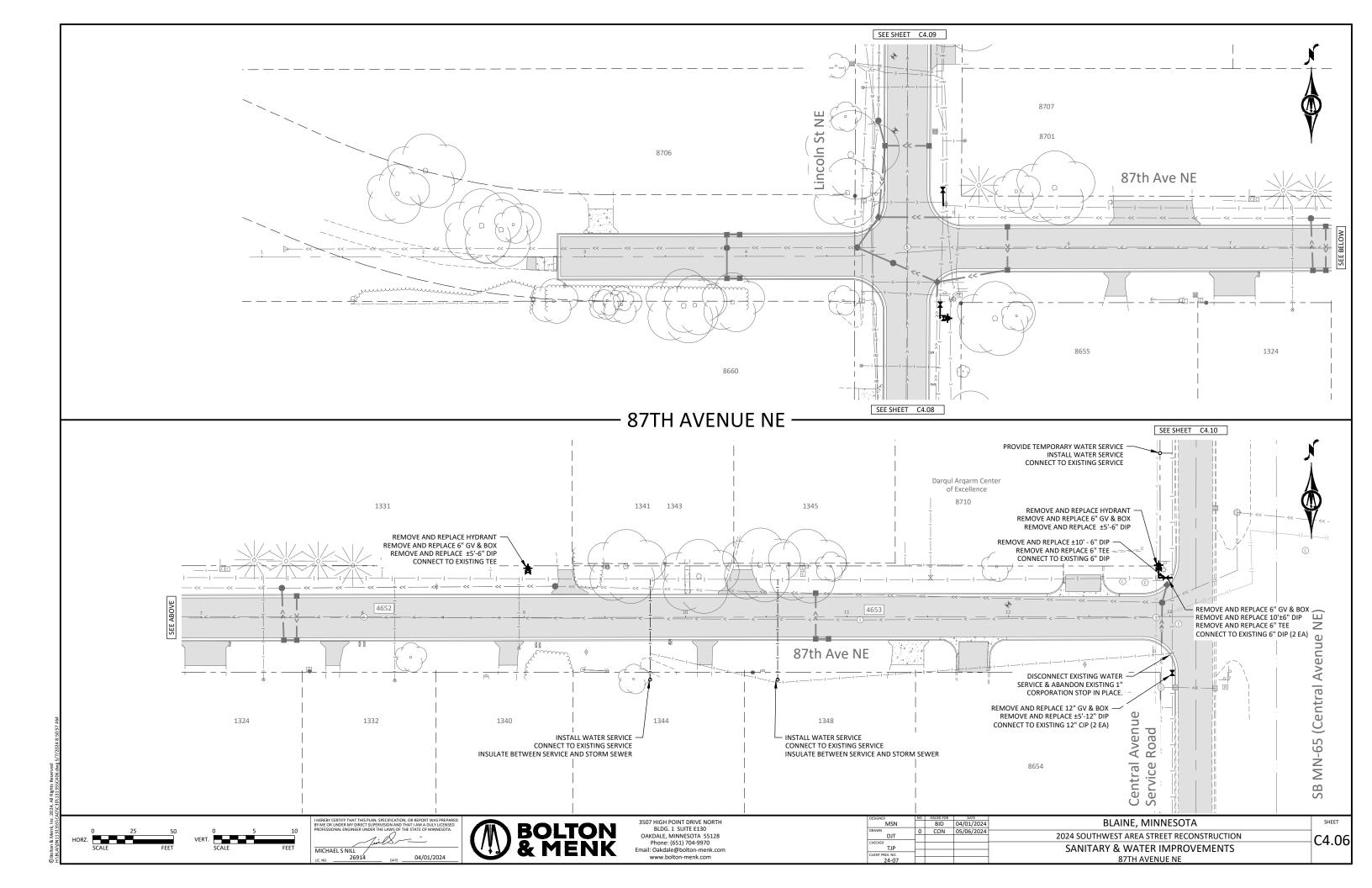


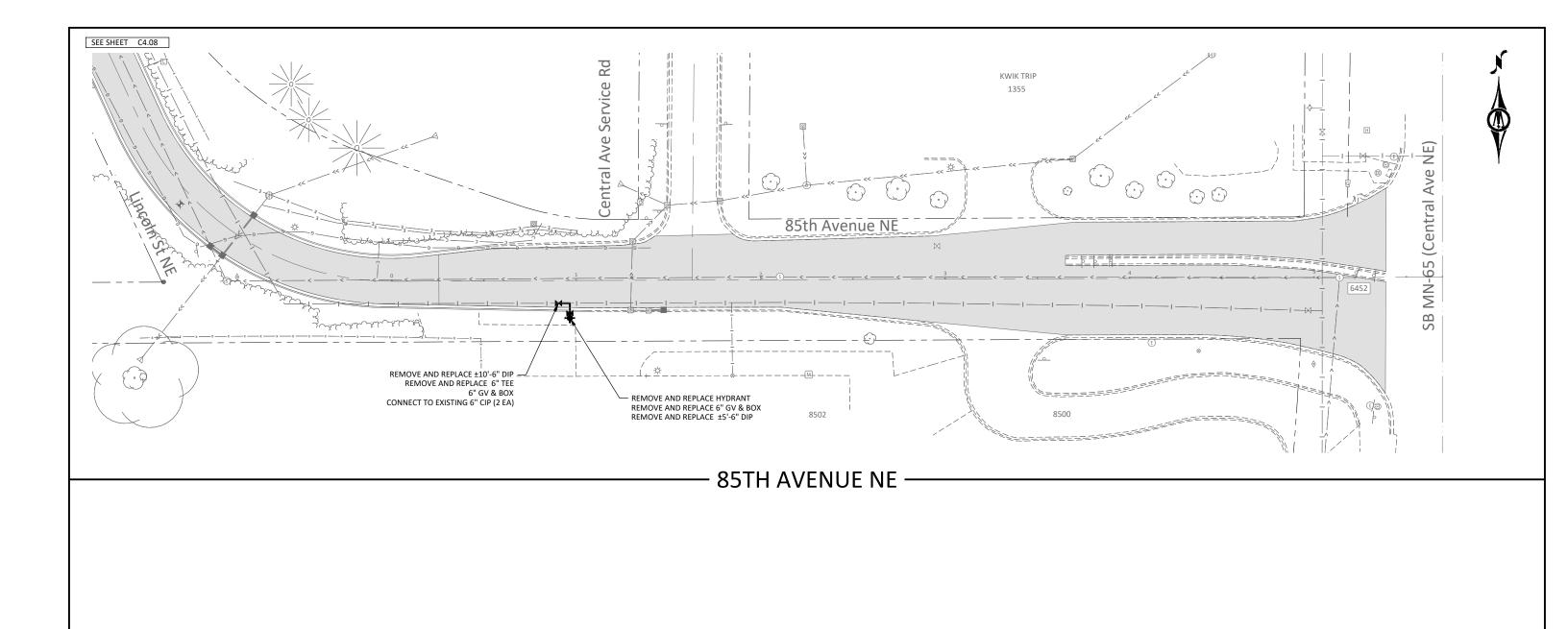












ORZ. SCALE FEET

HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DUTY LICENSE PROFESSIONAL ENGINEER UNDER THE UNISO OF THE STATE OF MININESOTA.

MICHAEL S NILL

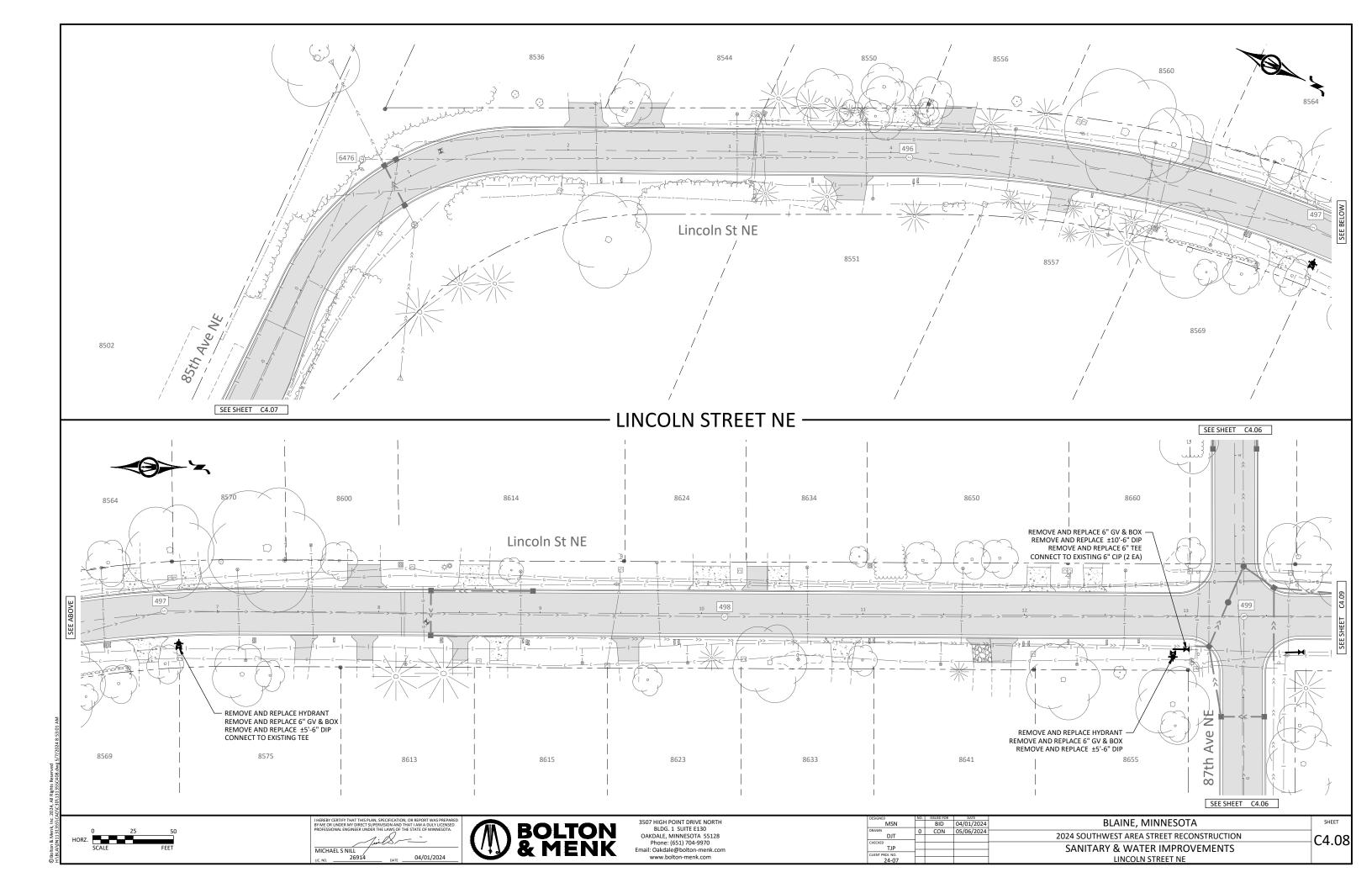
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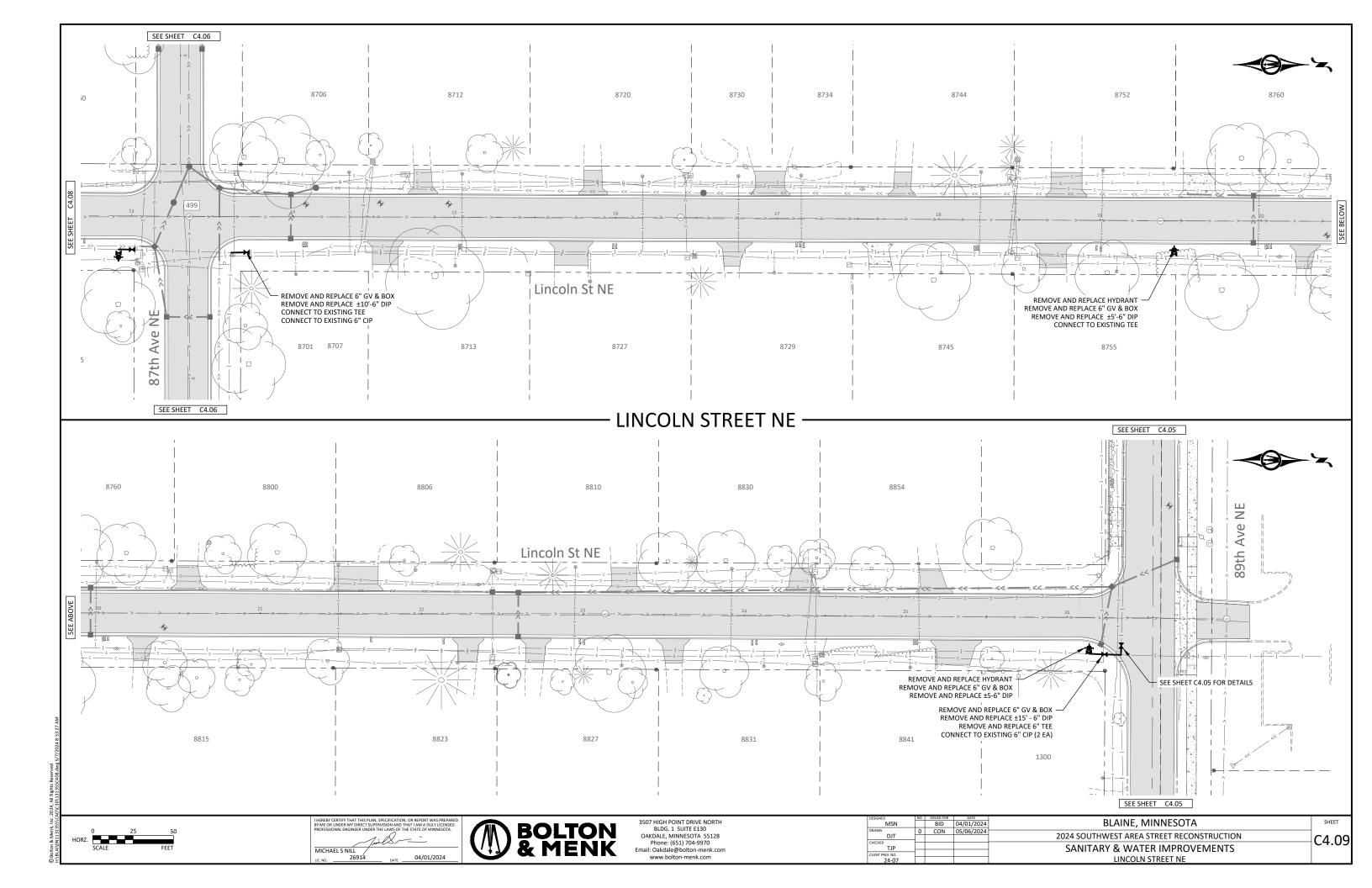
DATE 04/01/2024

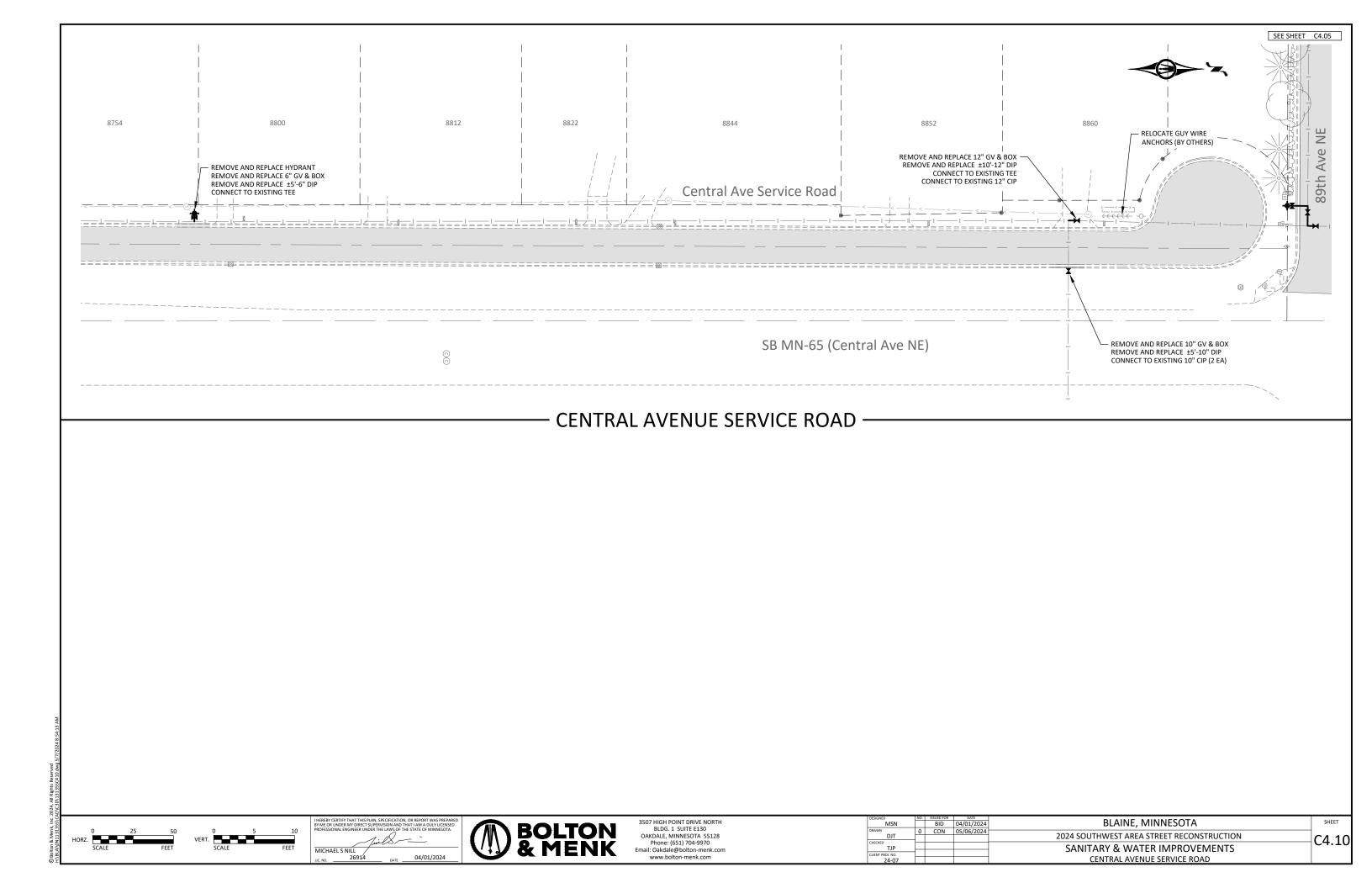


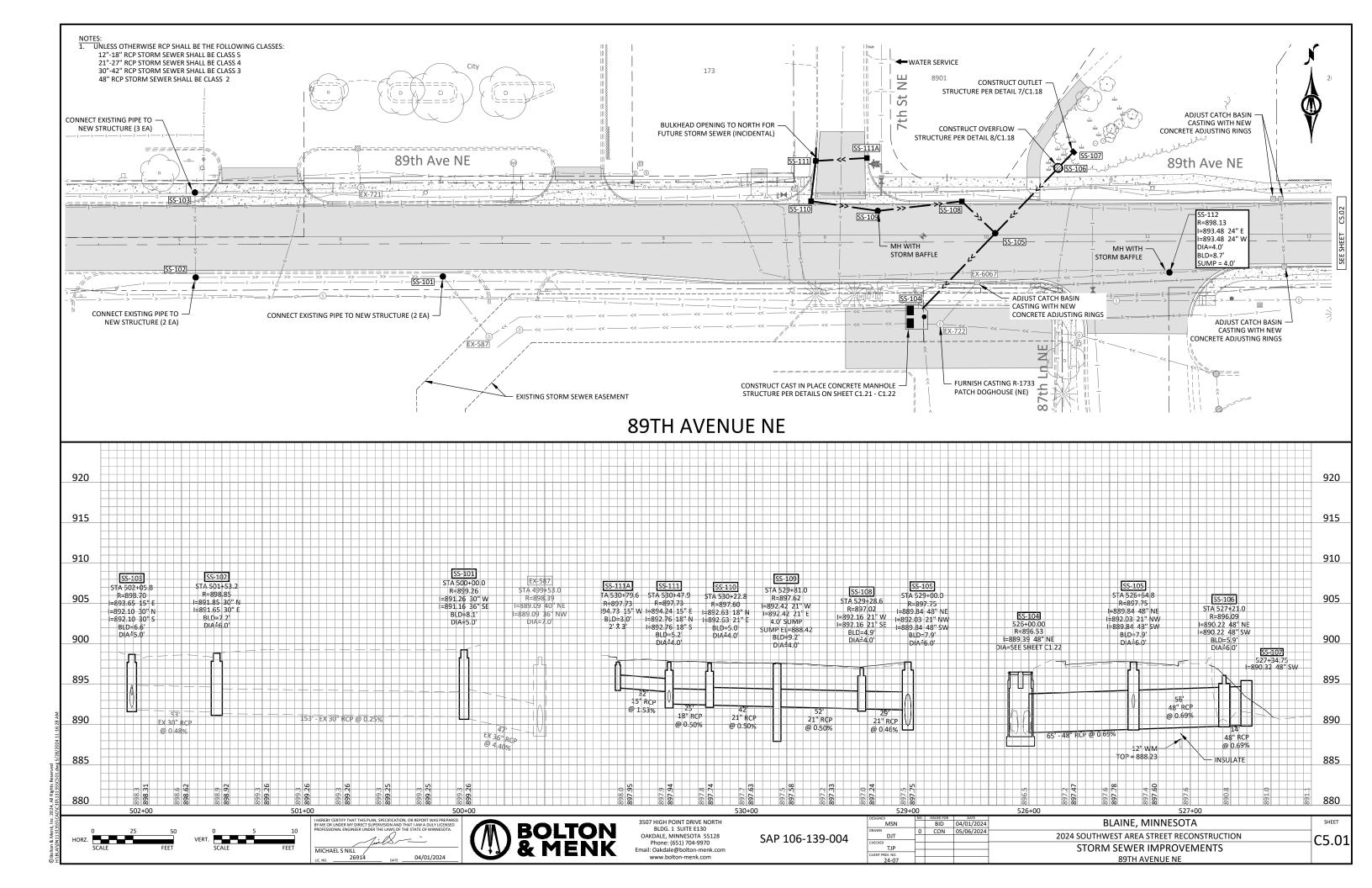
3507 HIGH POINT DRIVE NORTH BLDG. 1 SUITE E130 OAKDALE, MINNESOTA 55128 Phone: (651) 704-9970 Email: Oakdale@bolton-menk.com www.bolton-menk.com

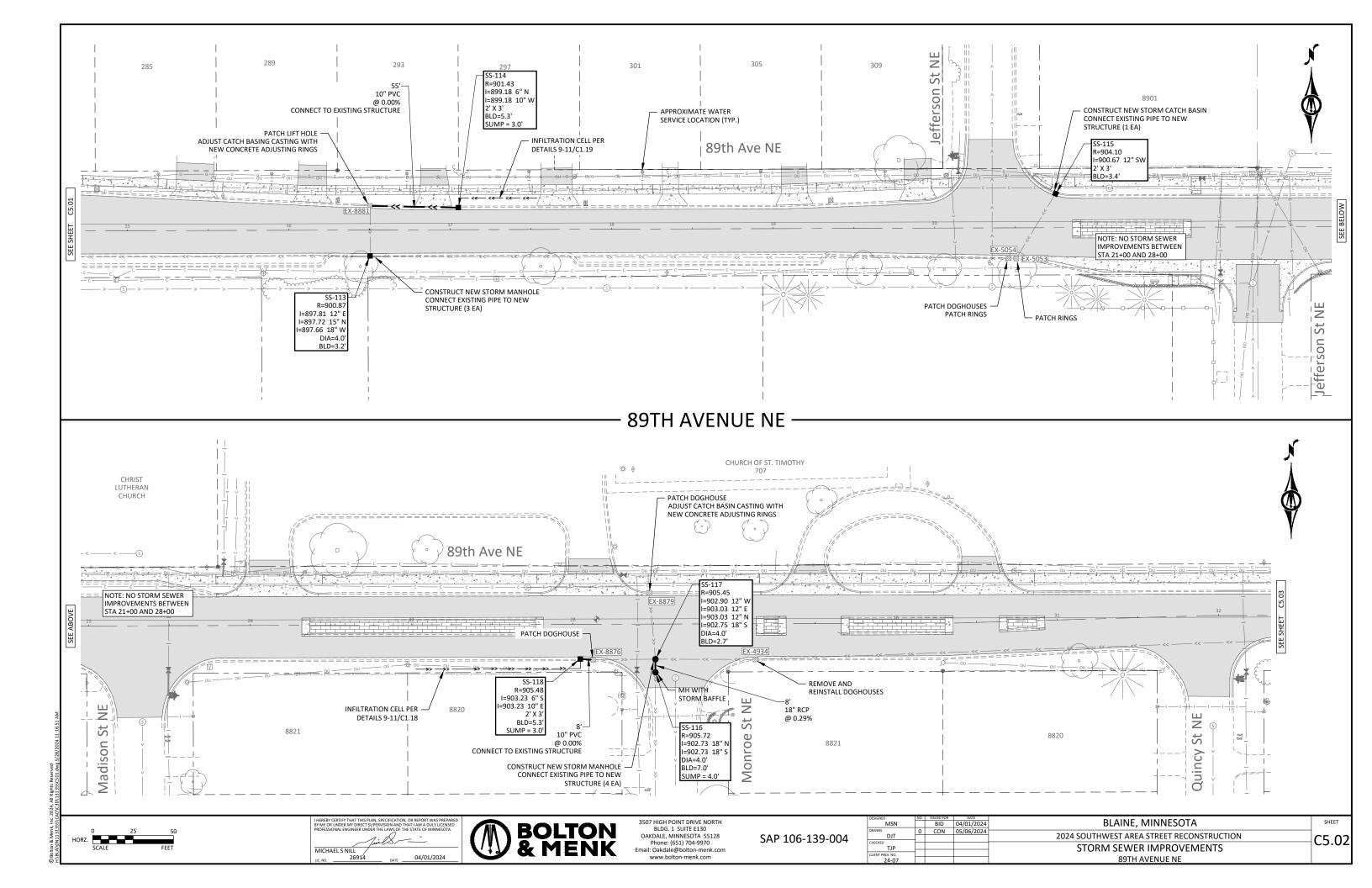
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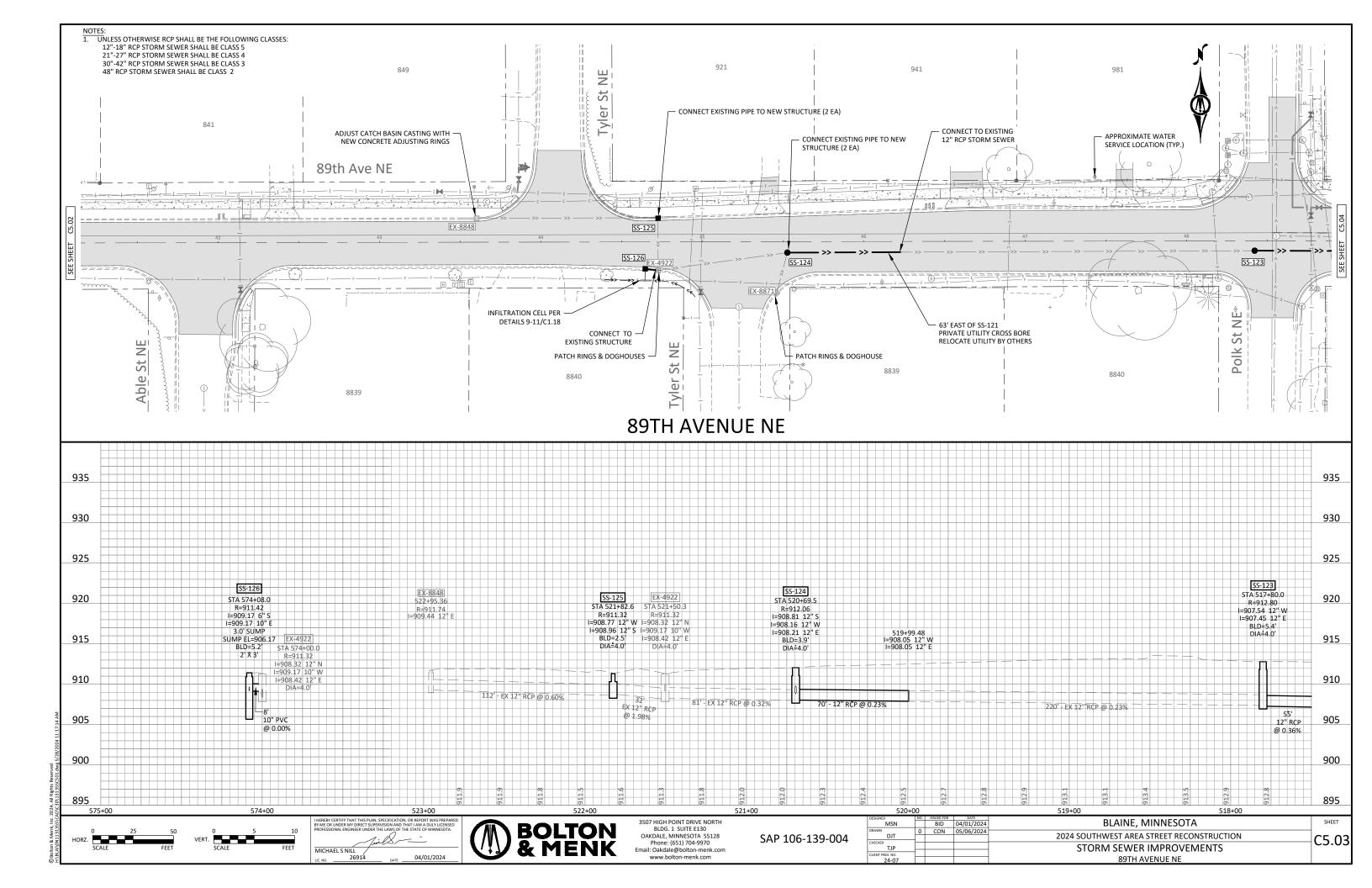


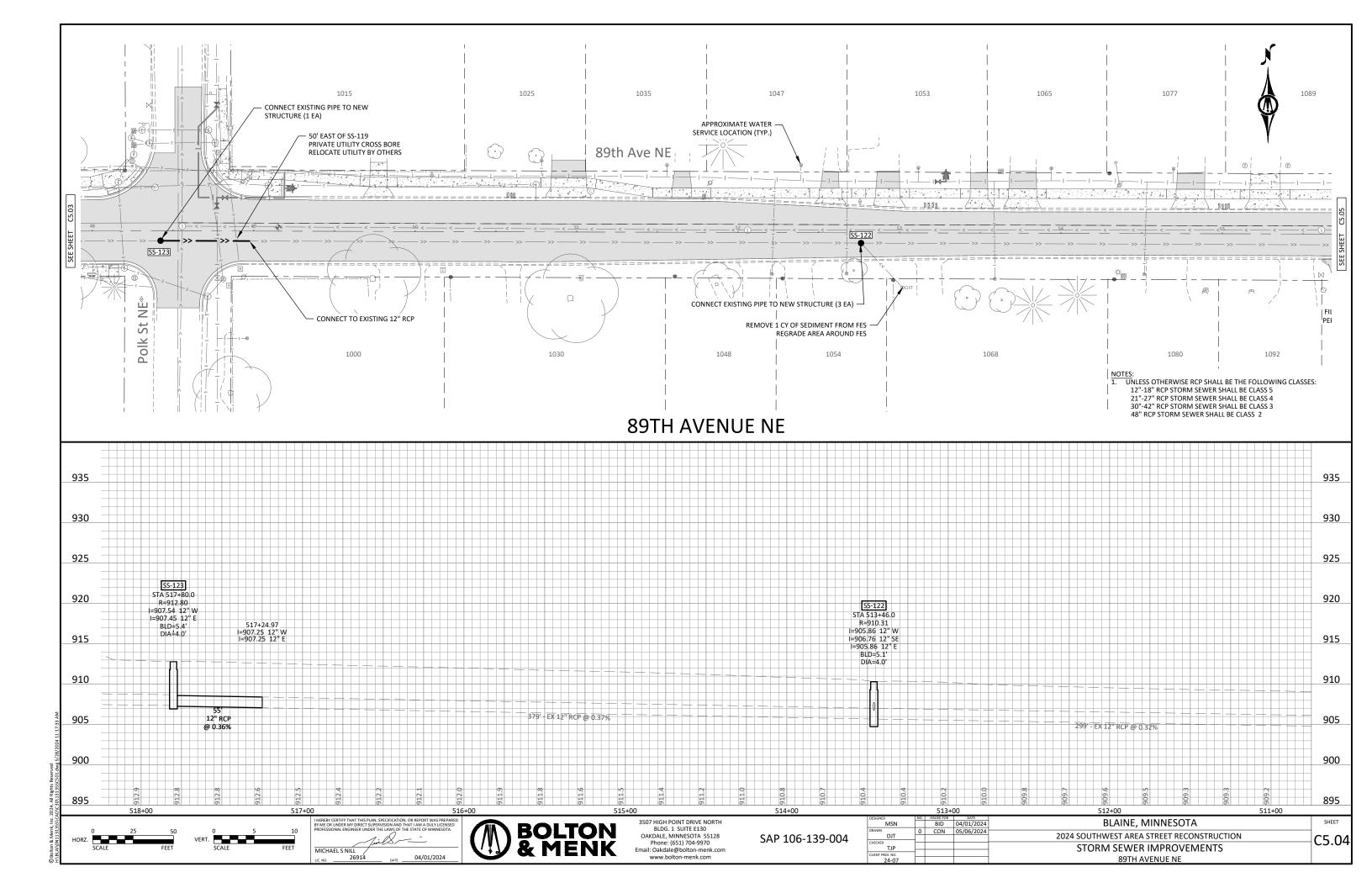


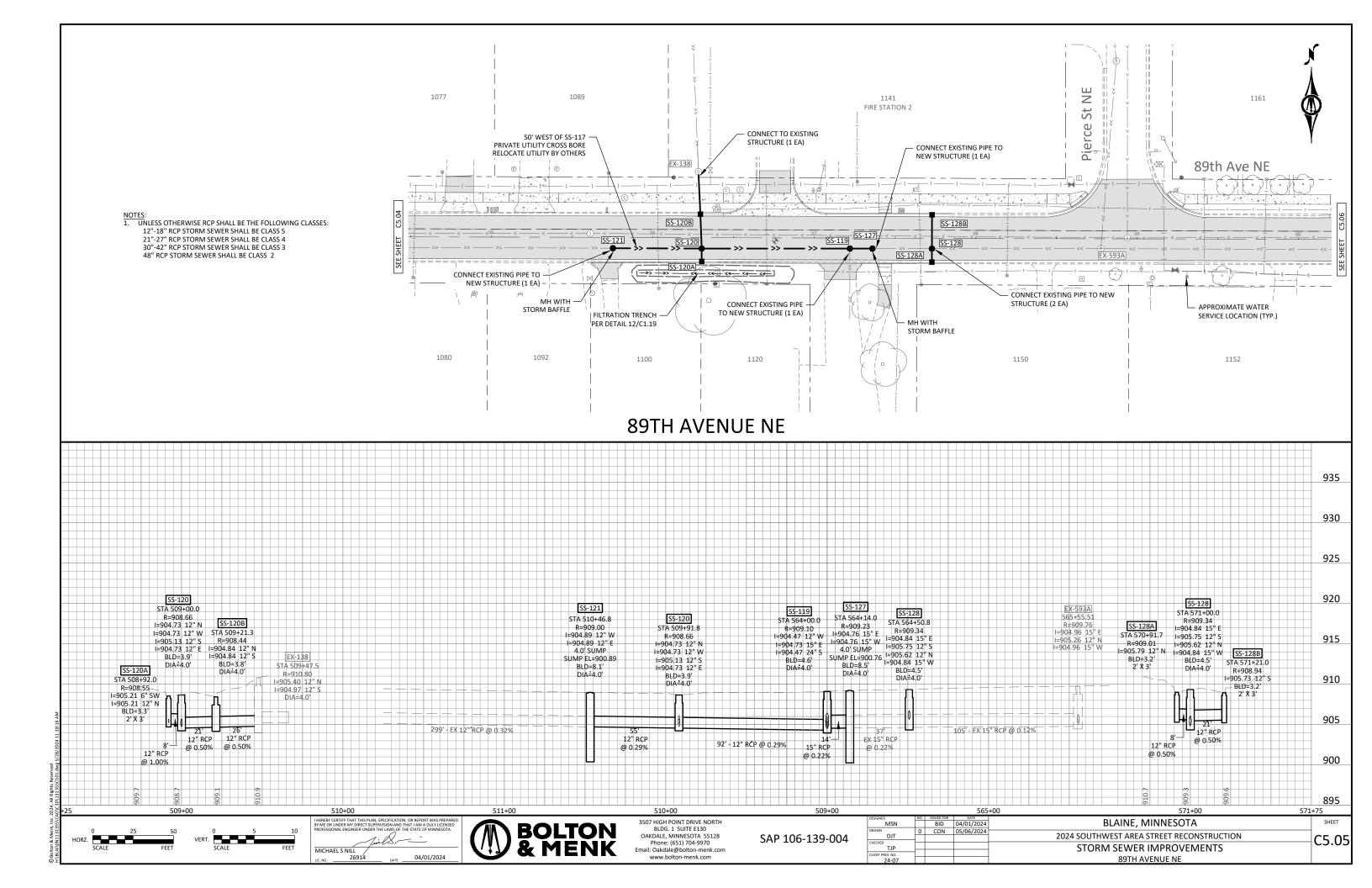


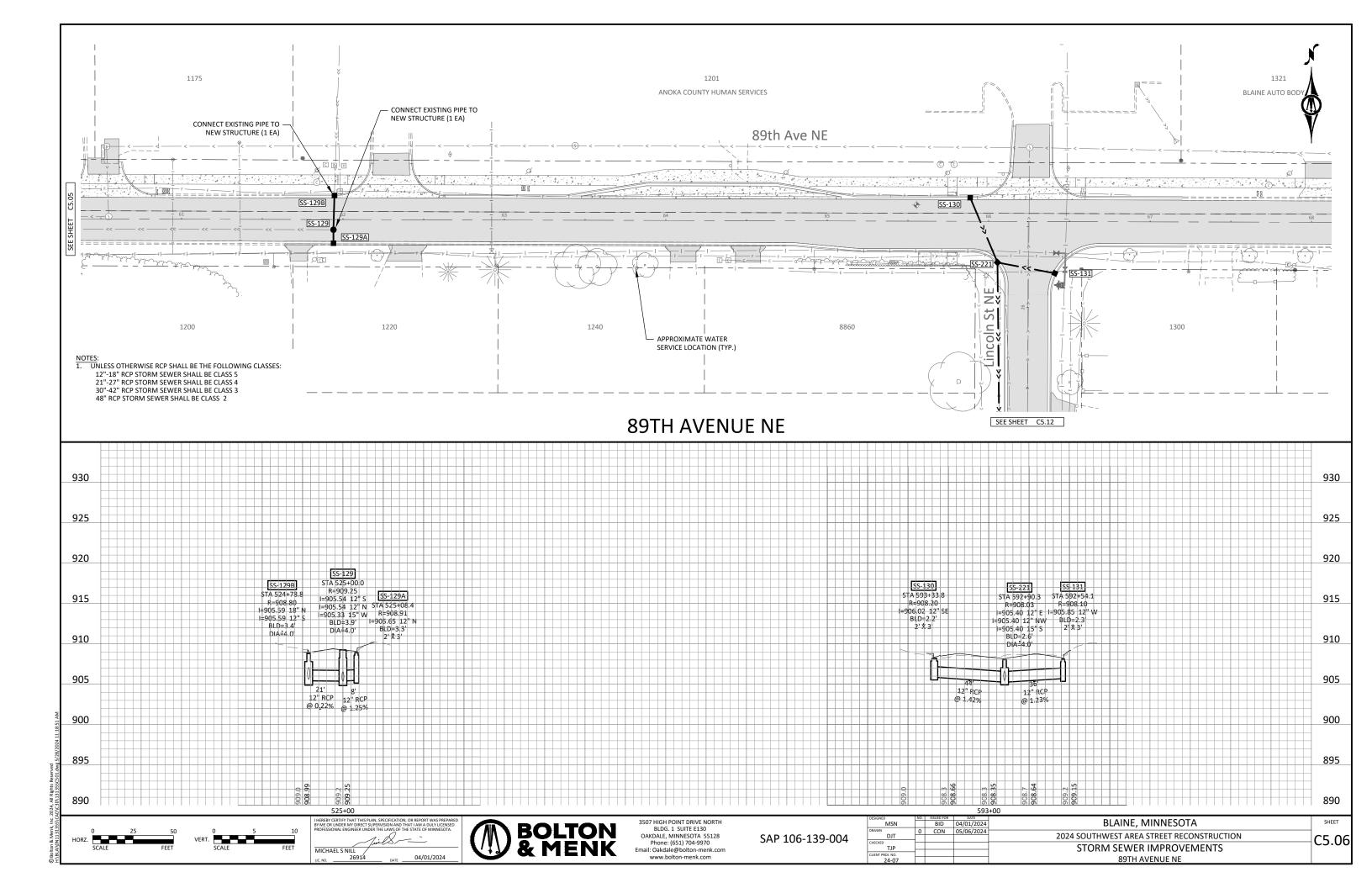


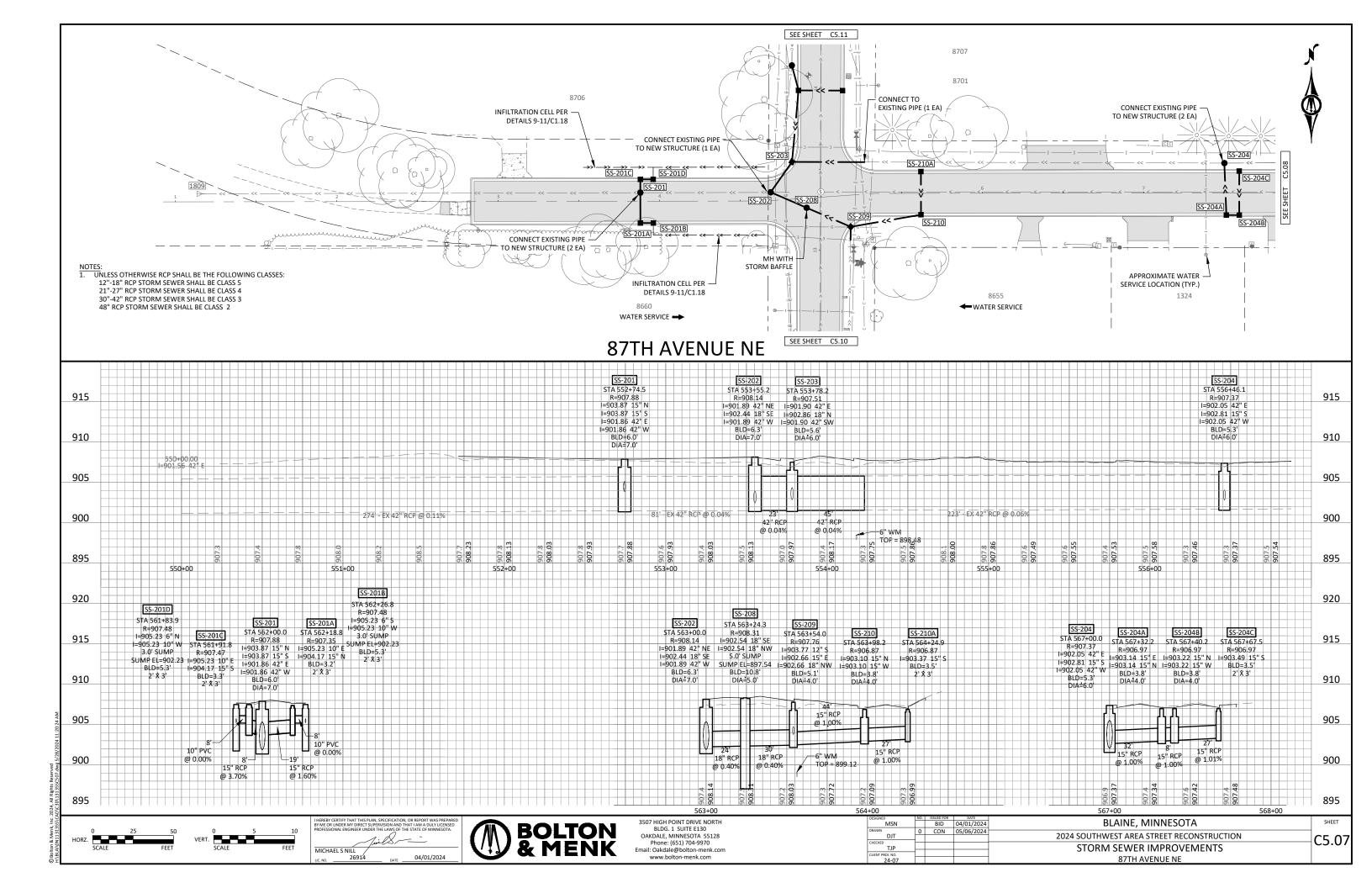


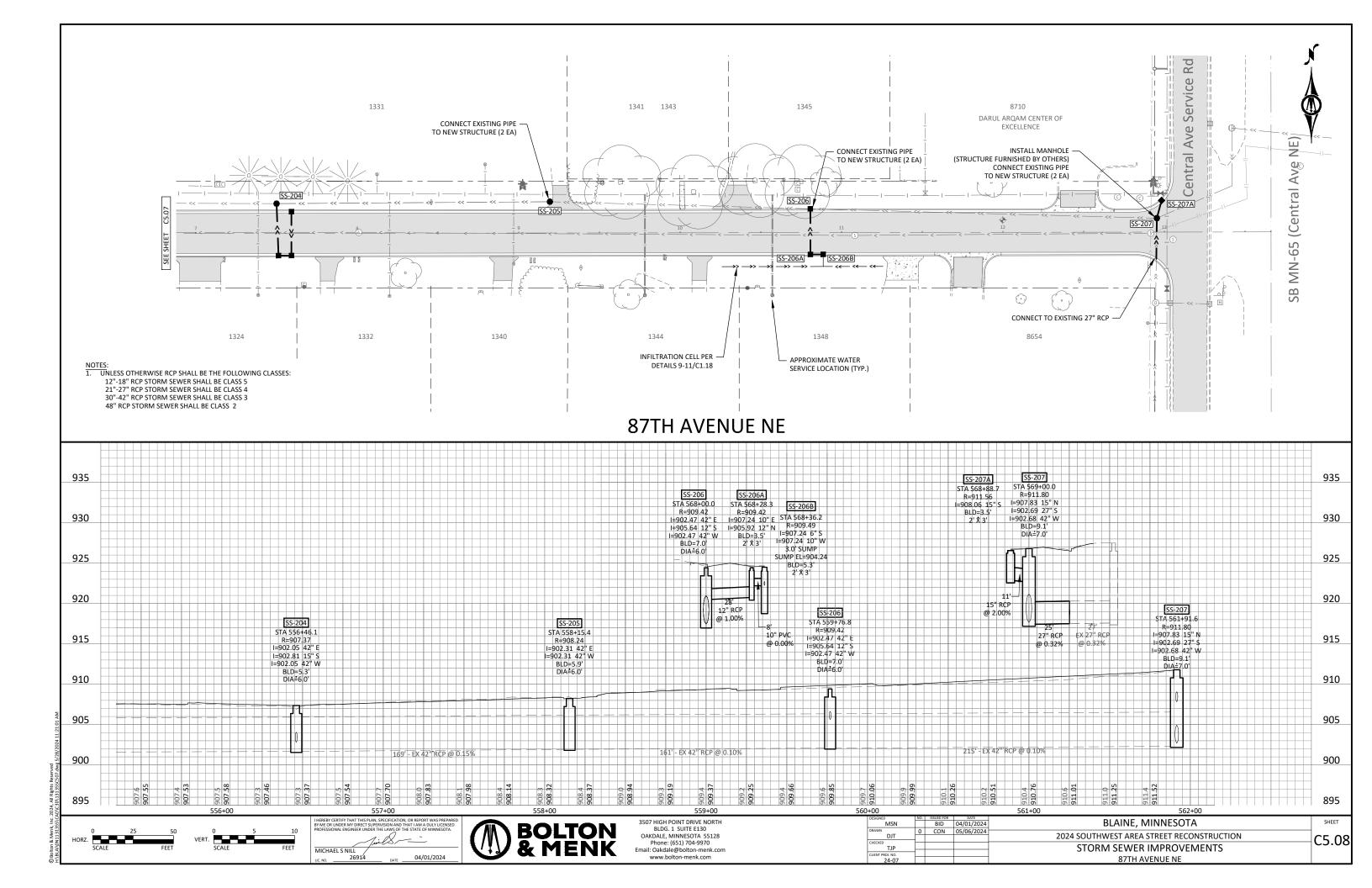


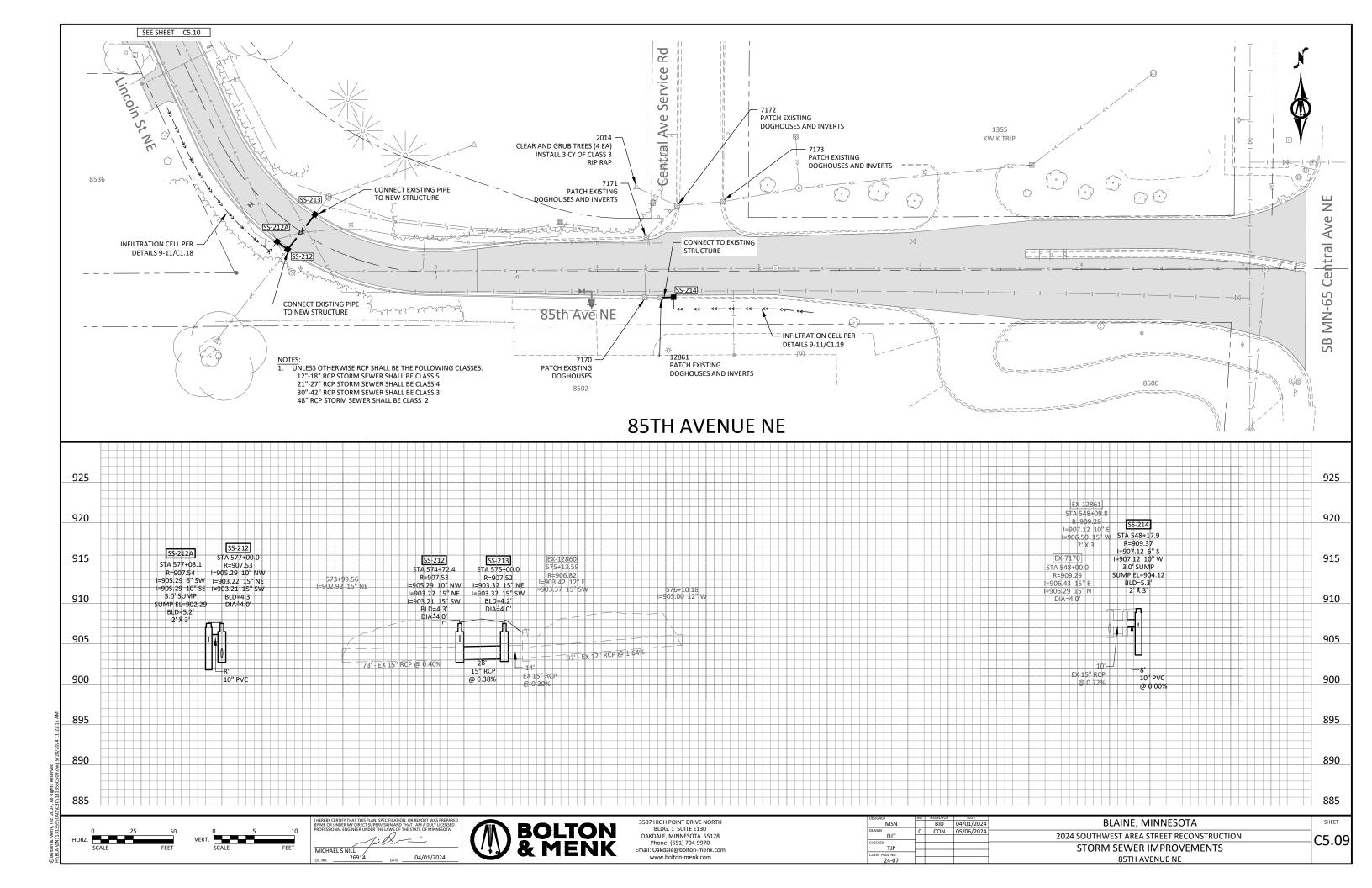


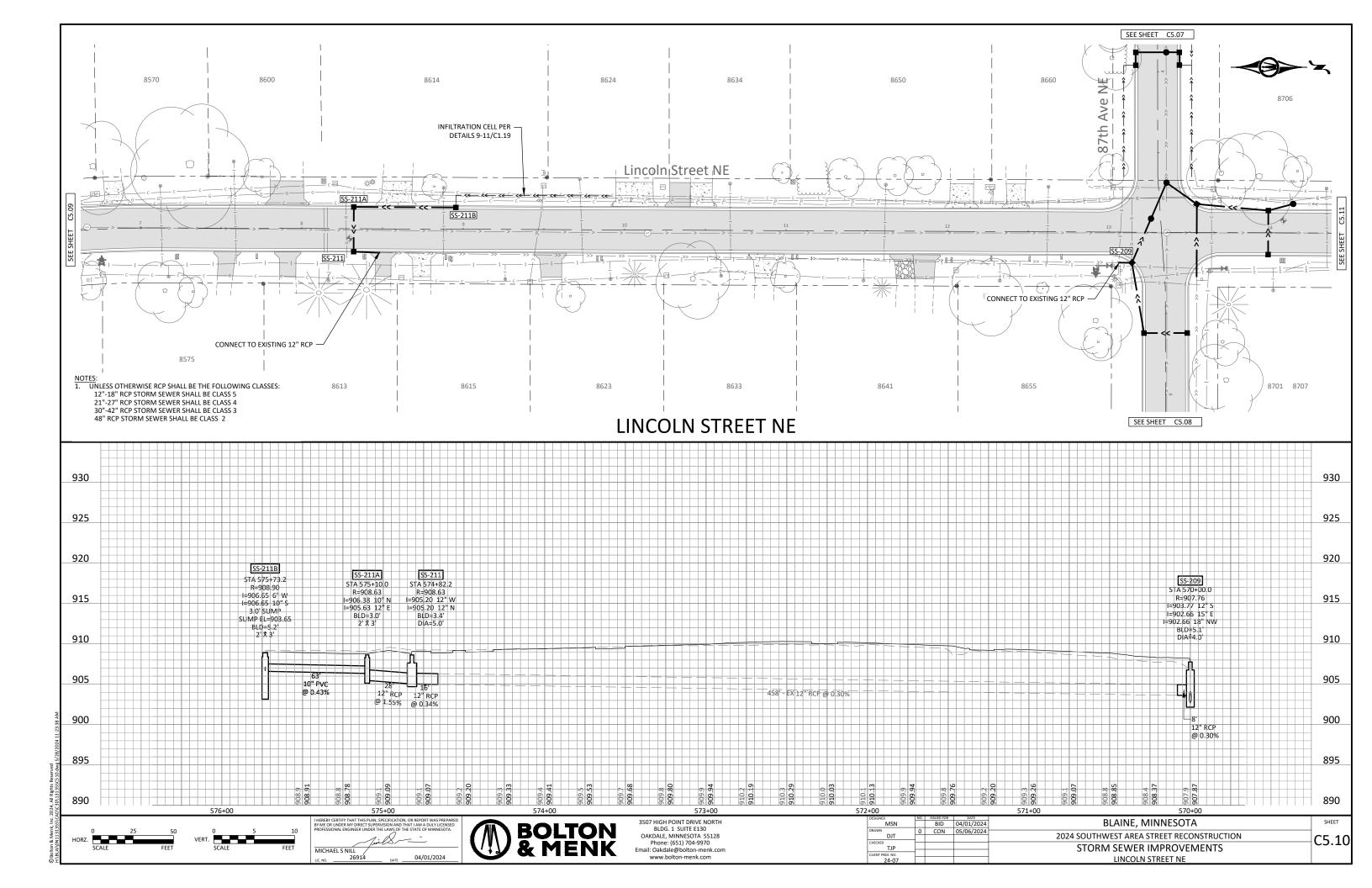


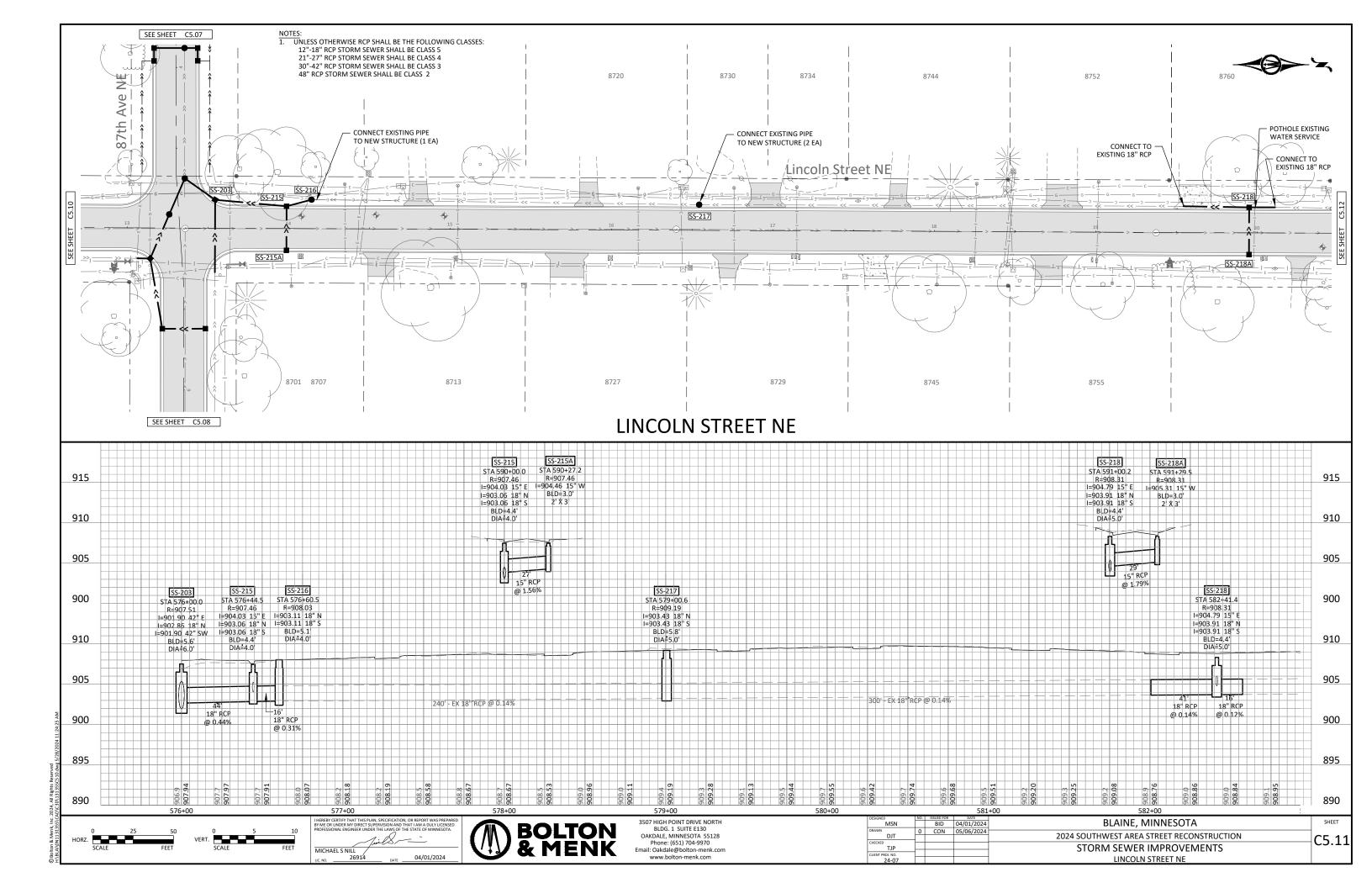


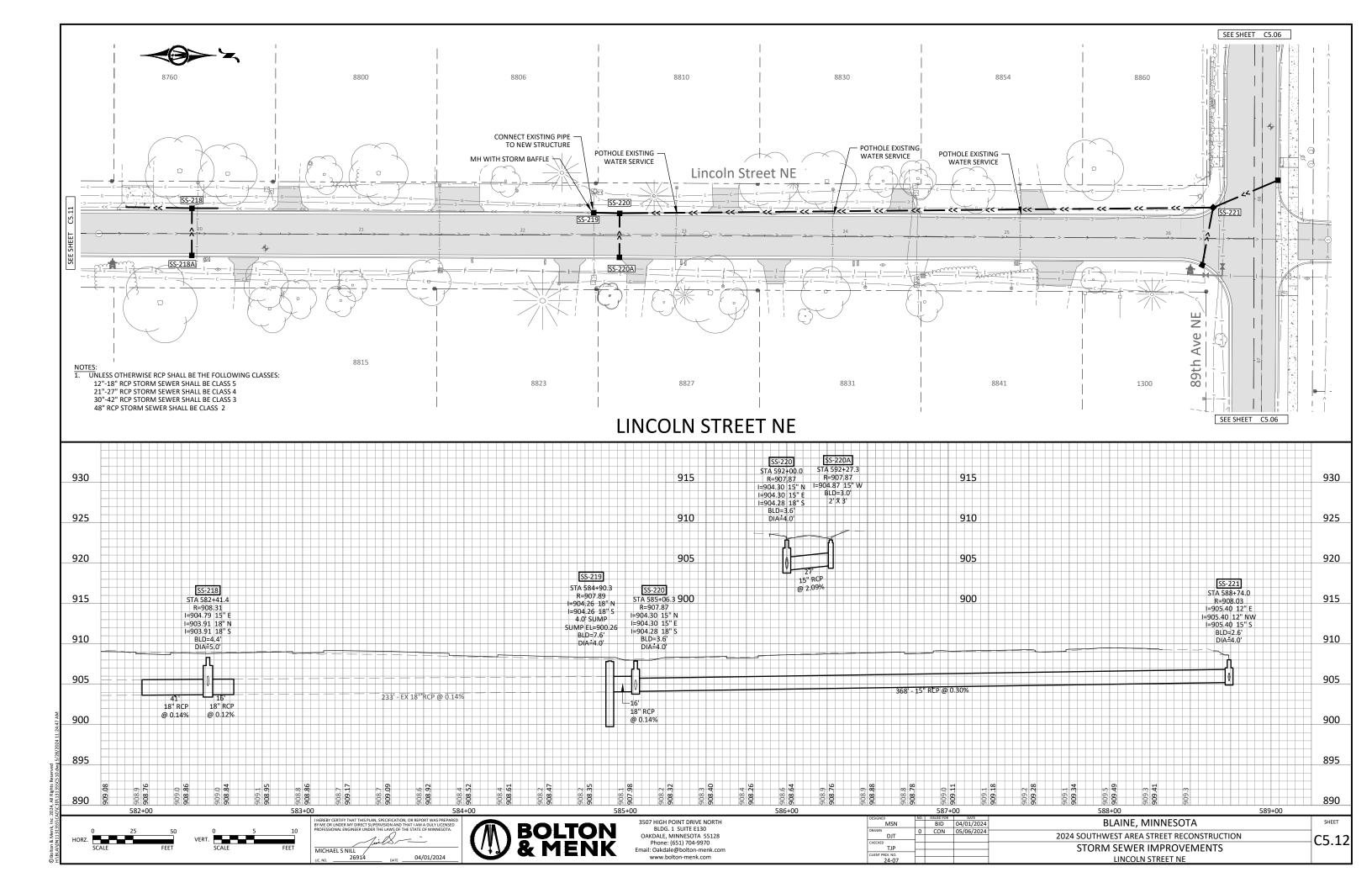


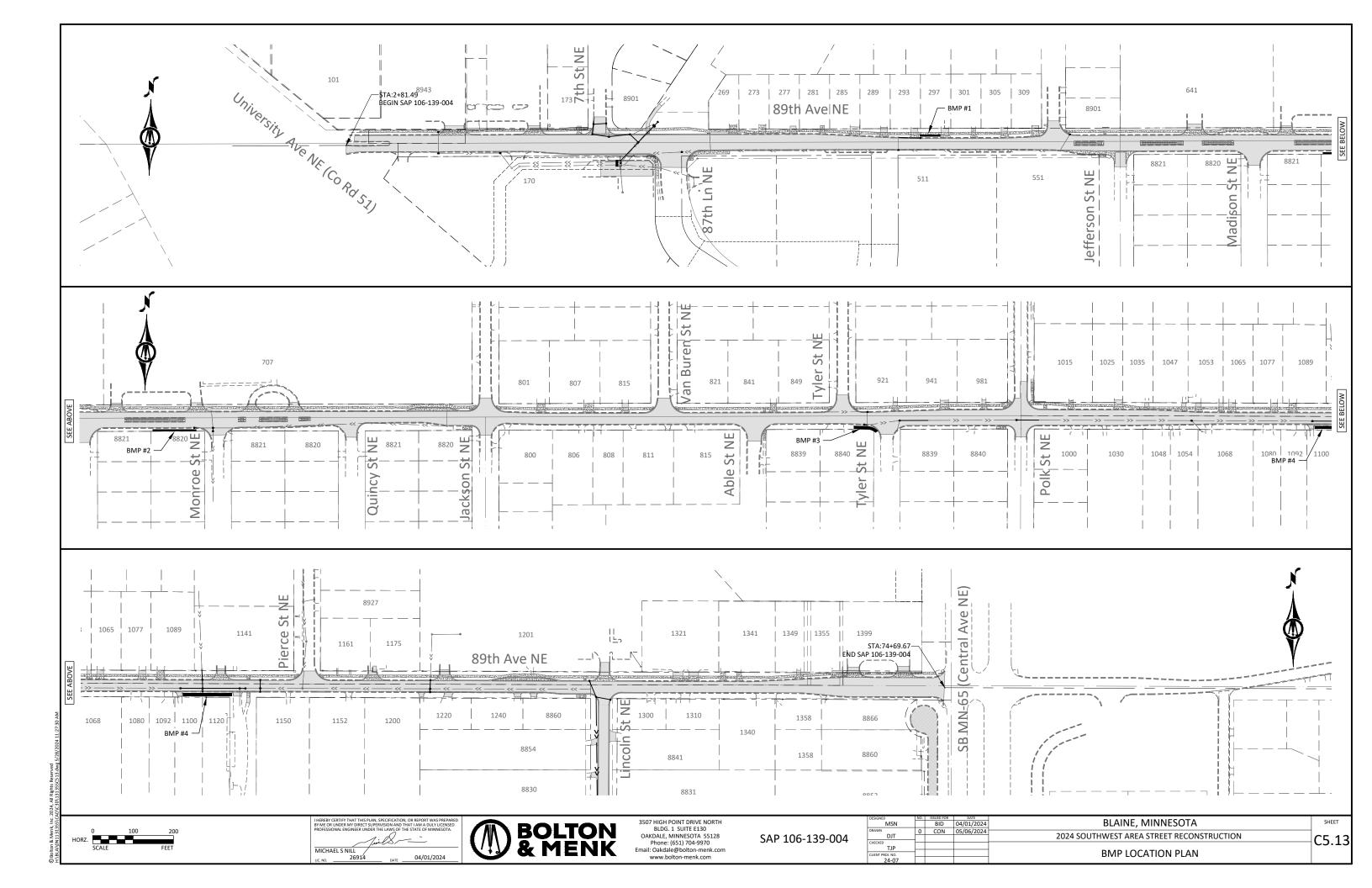


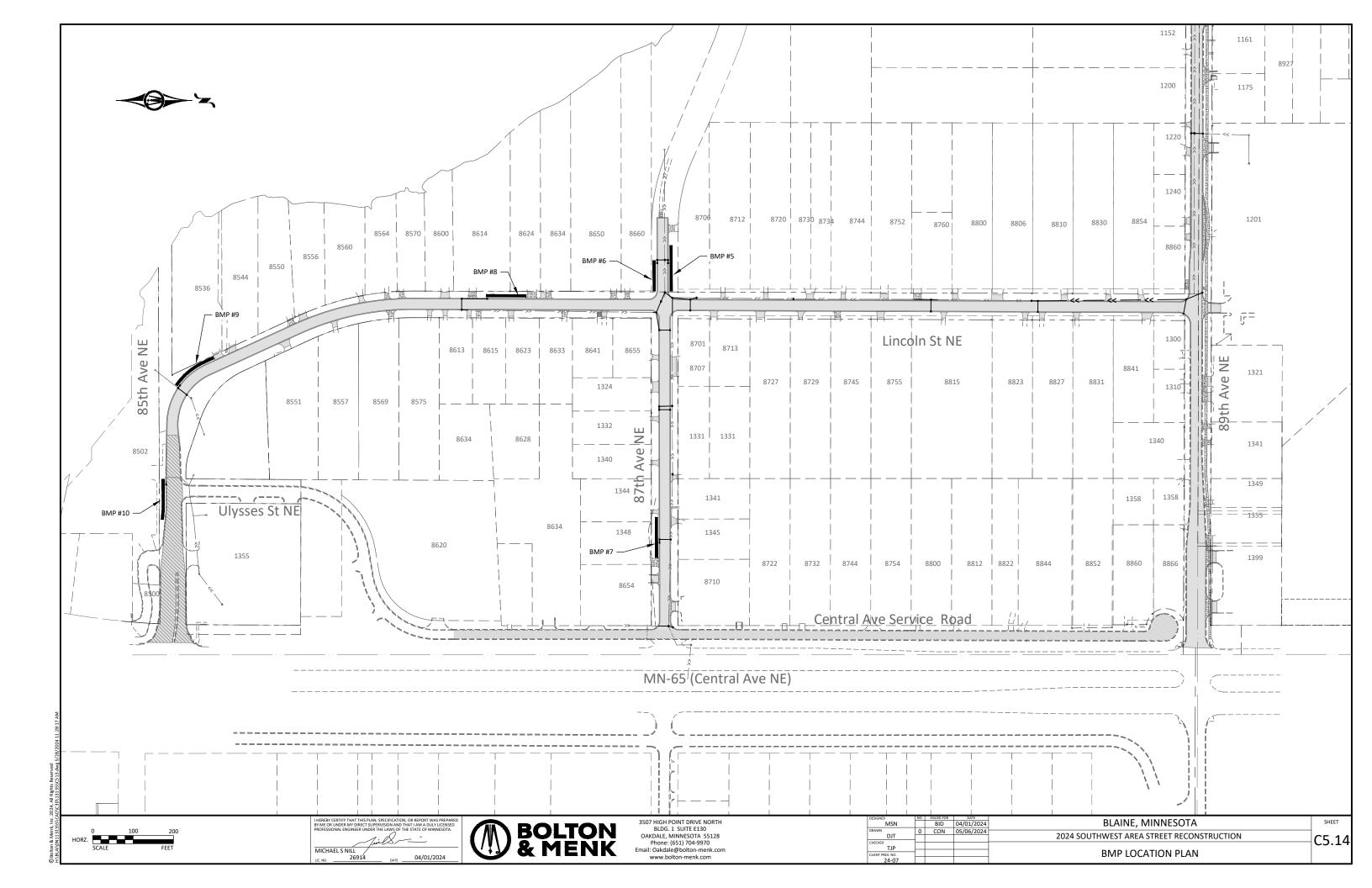


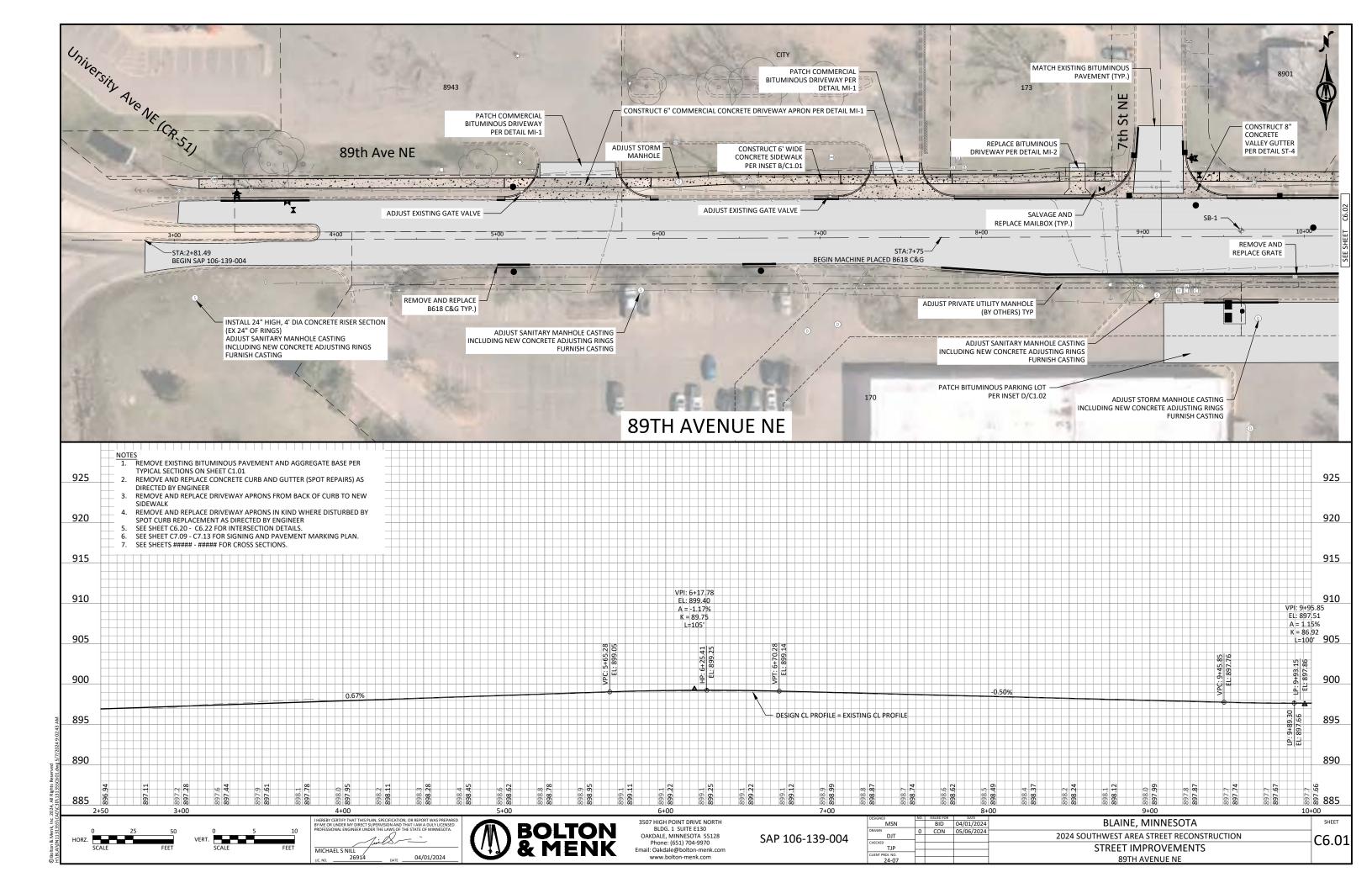


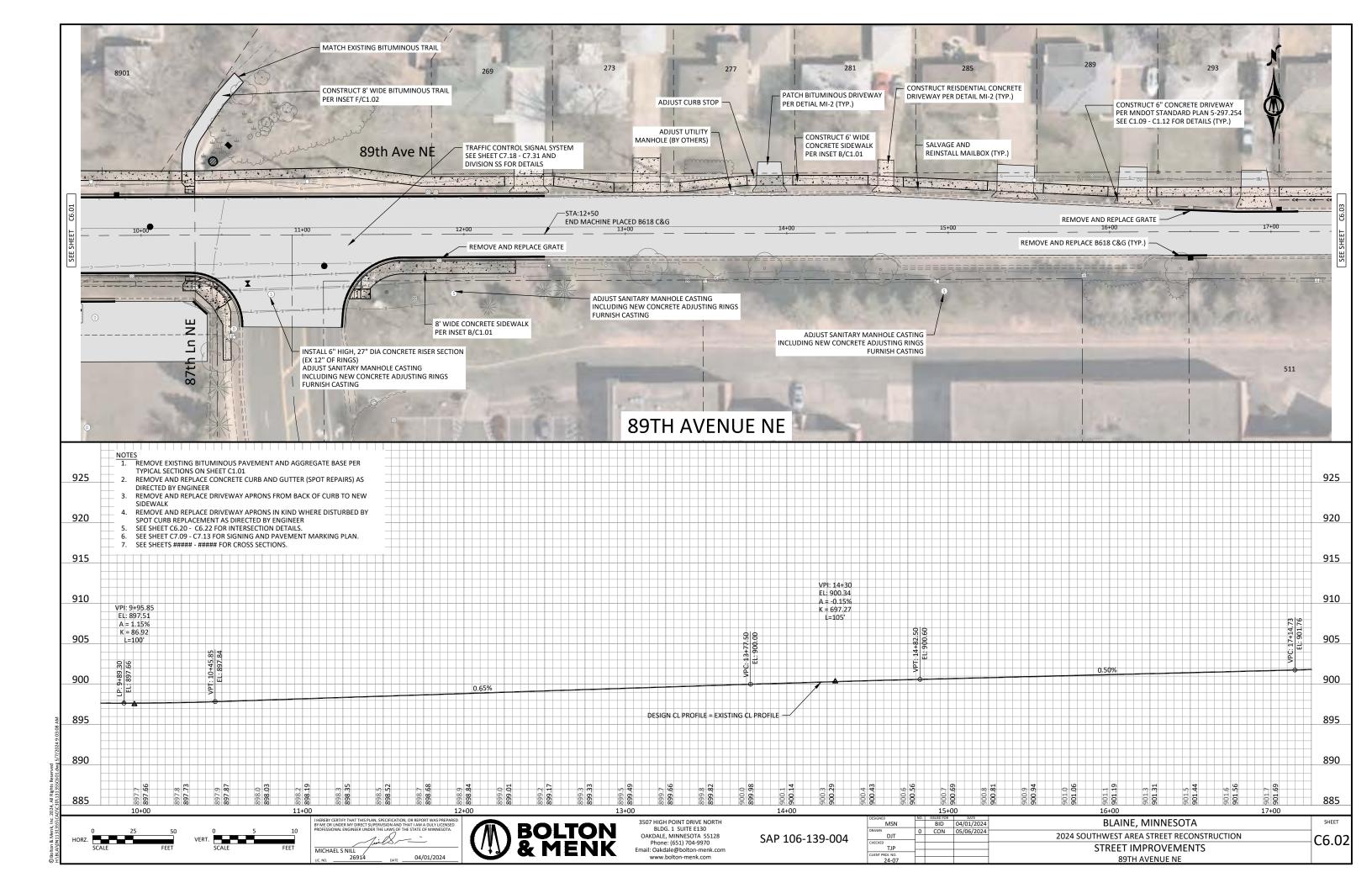


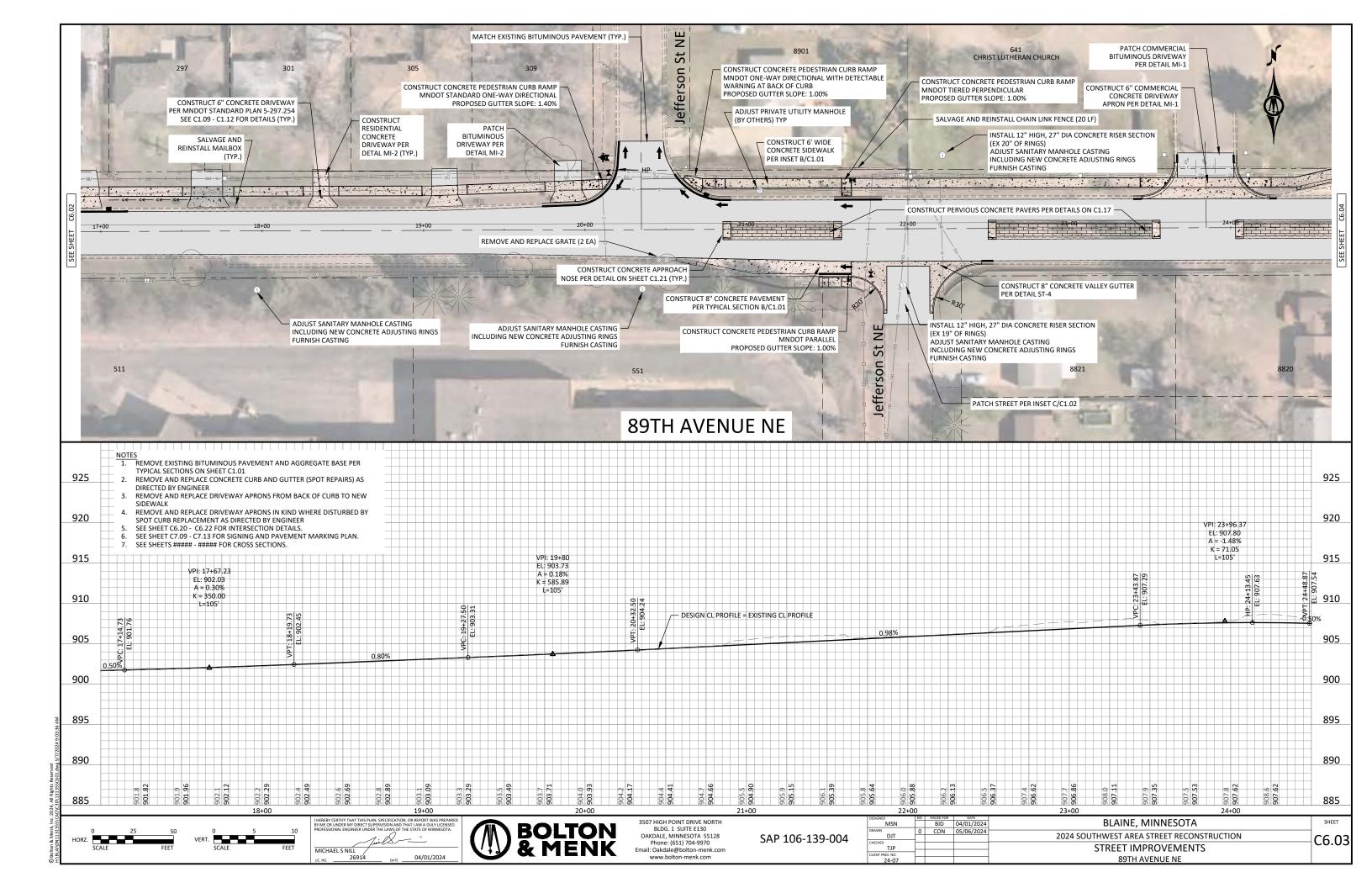


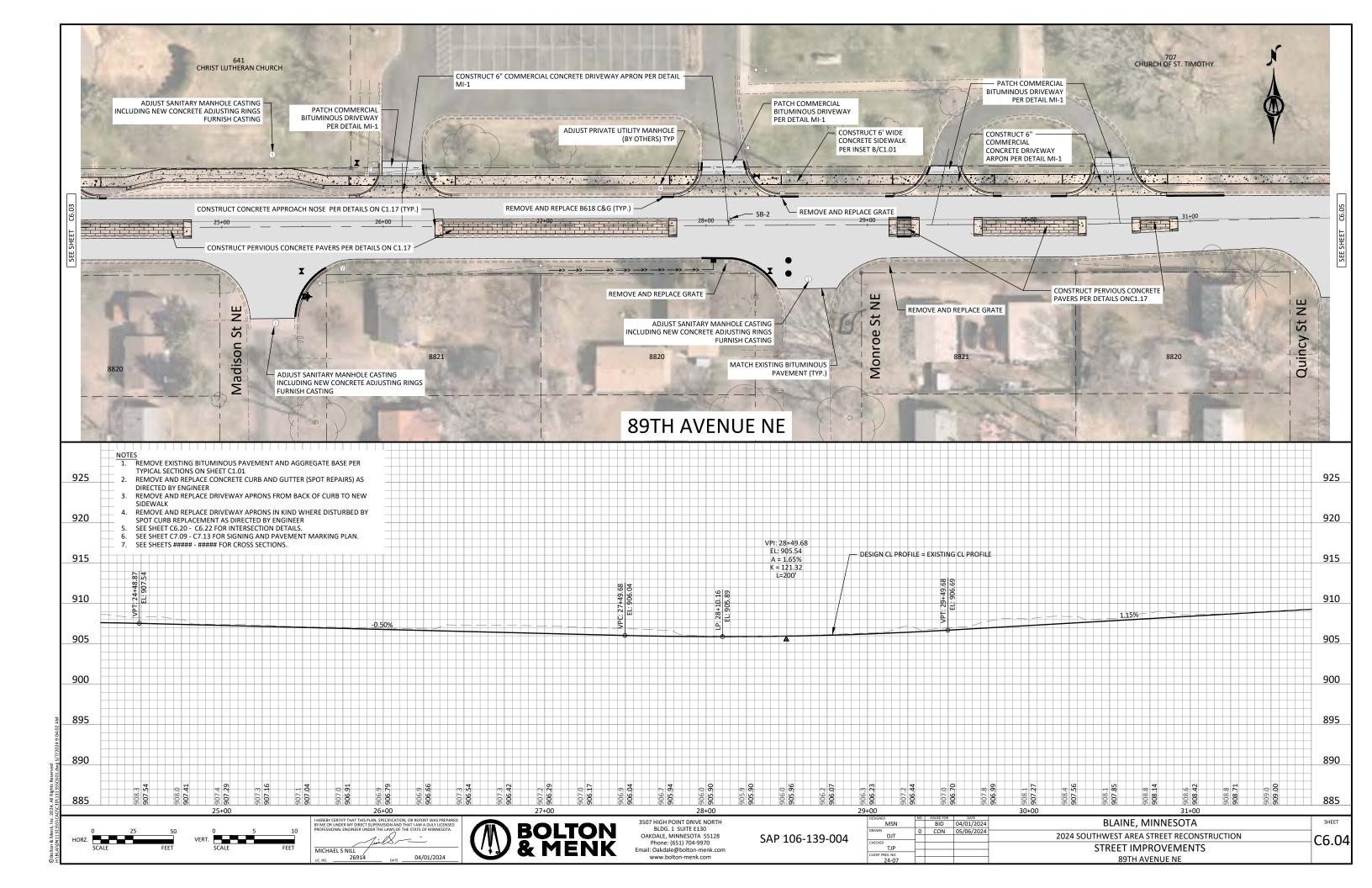


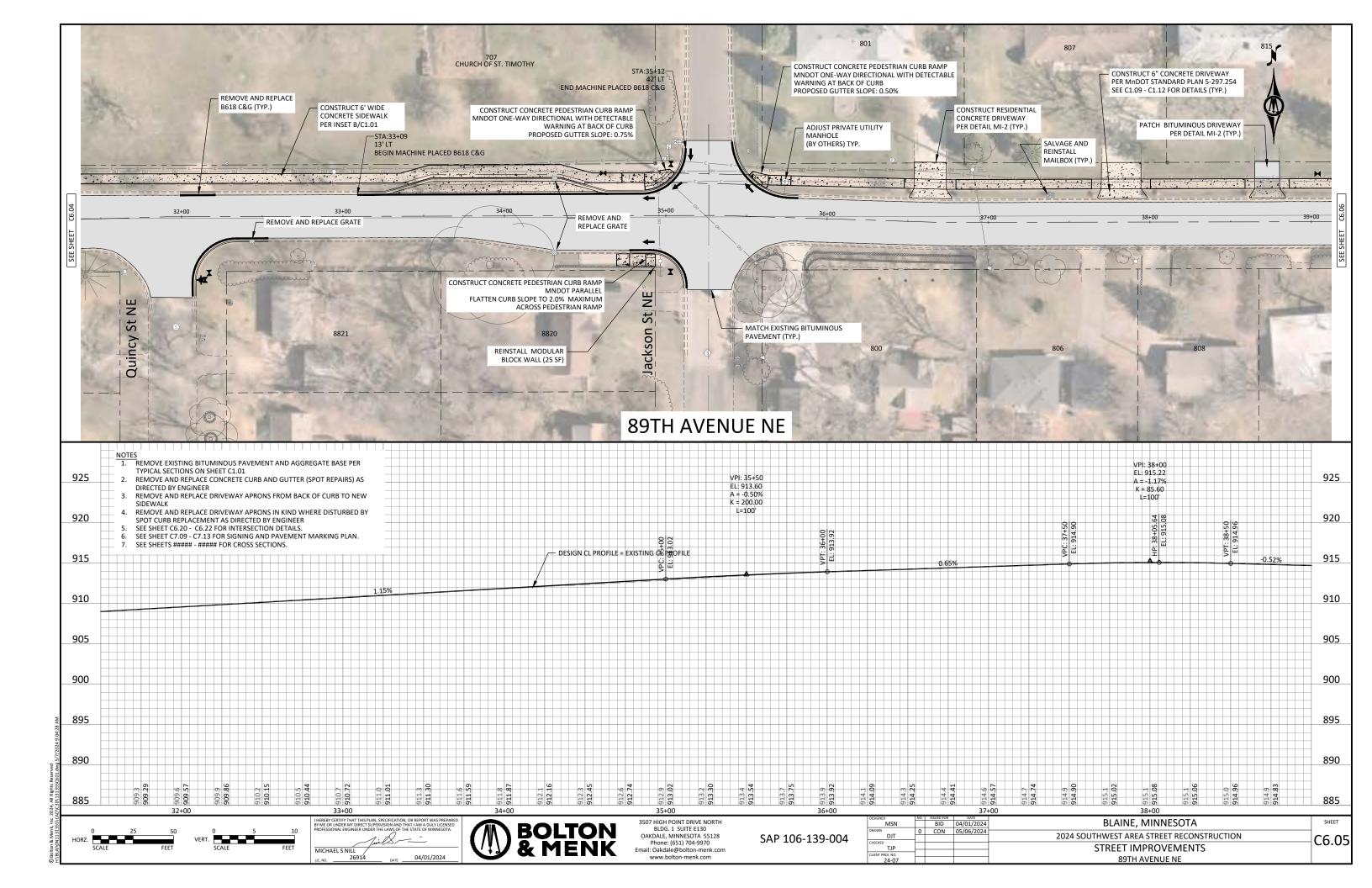


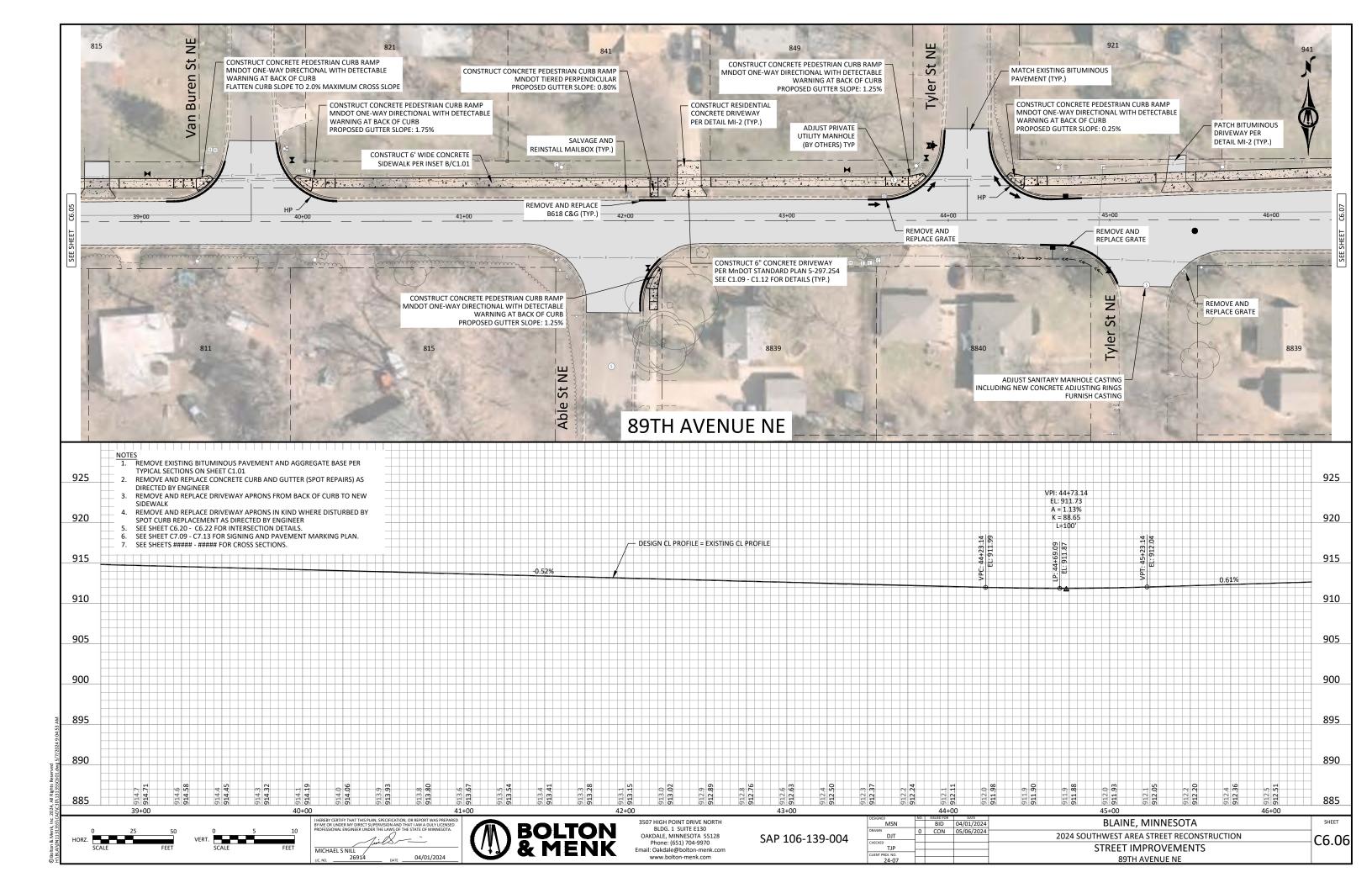


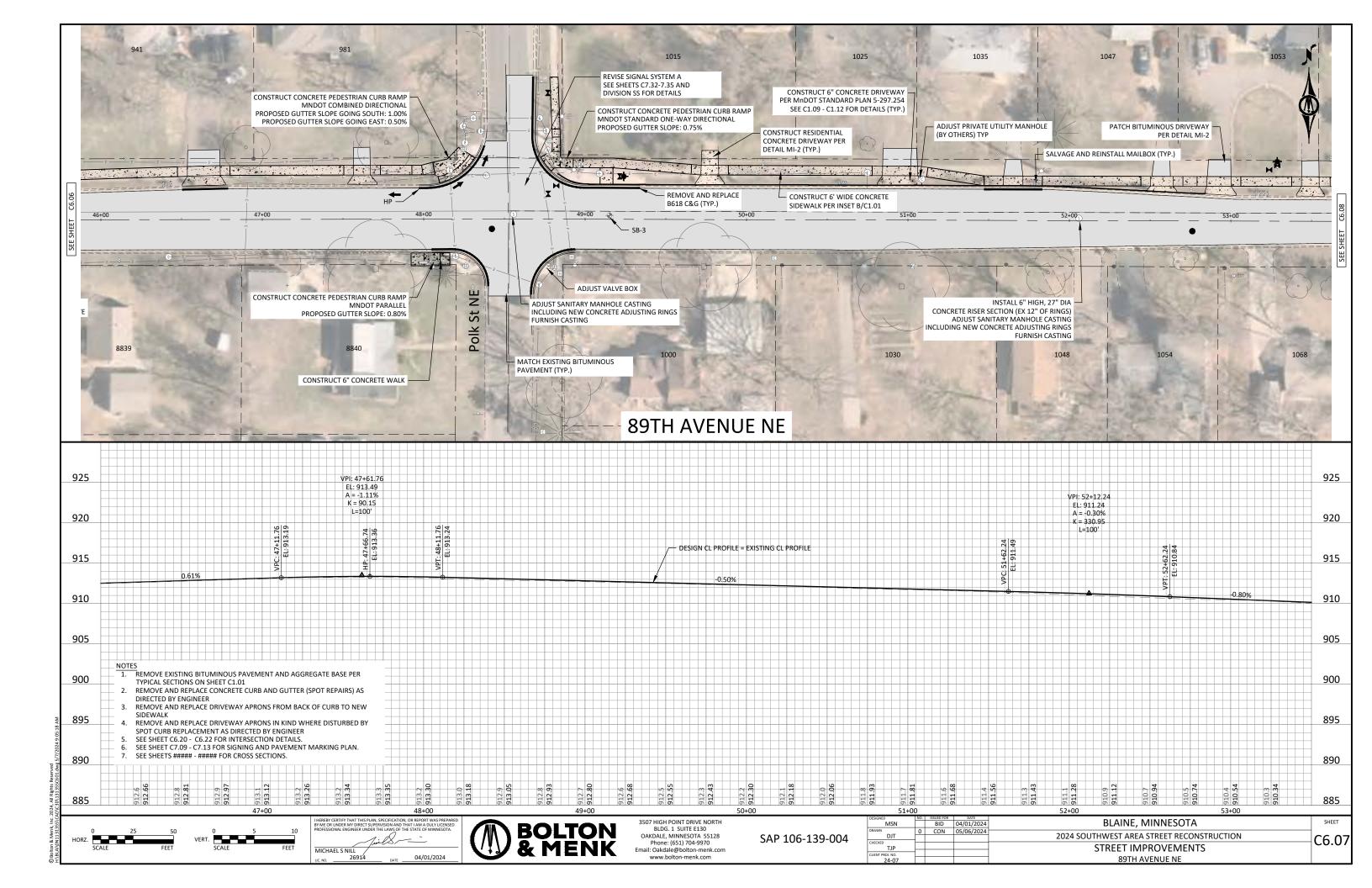


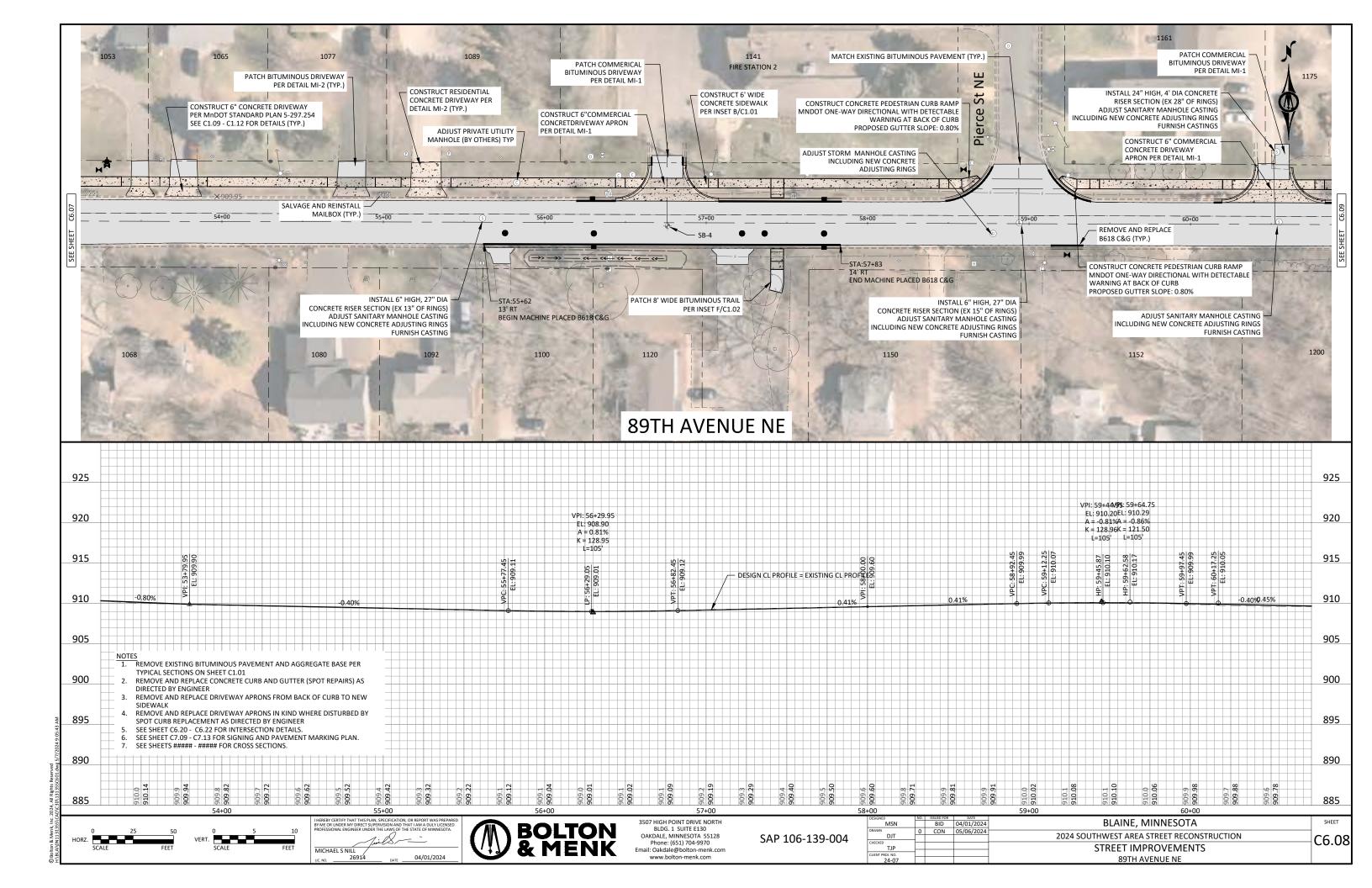


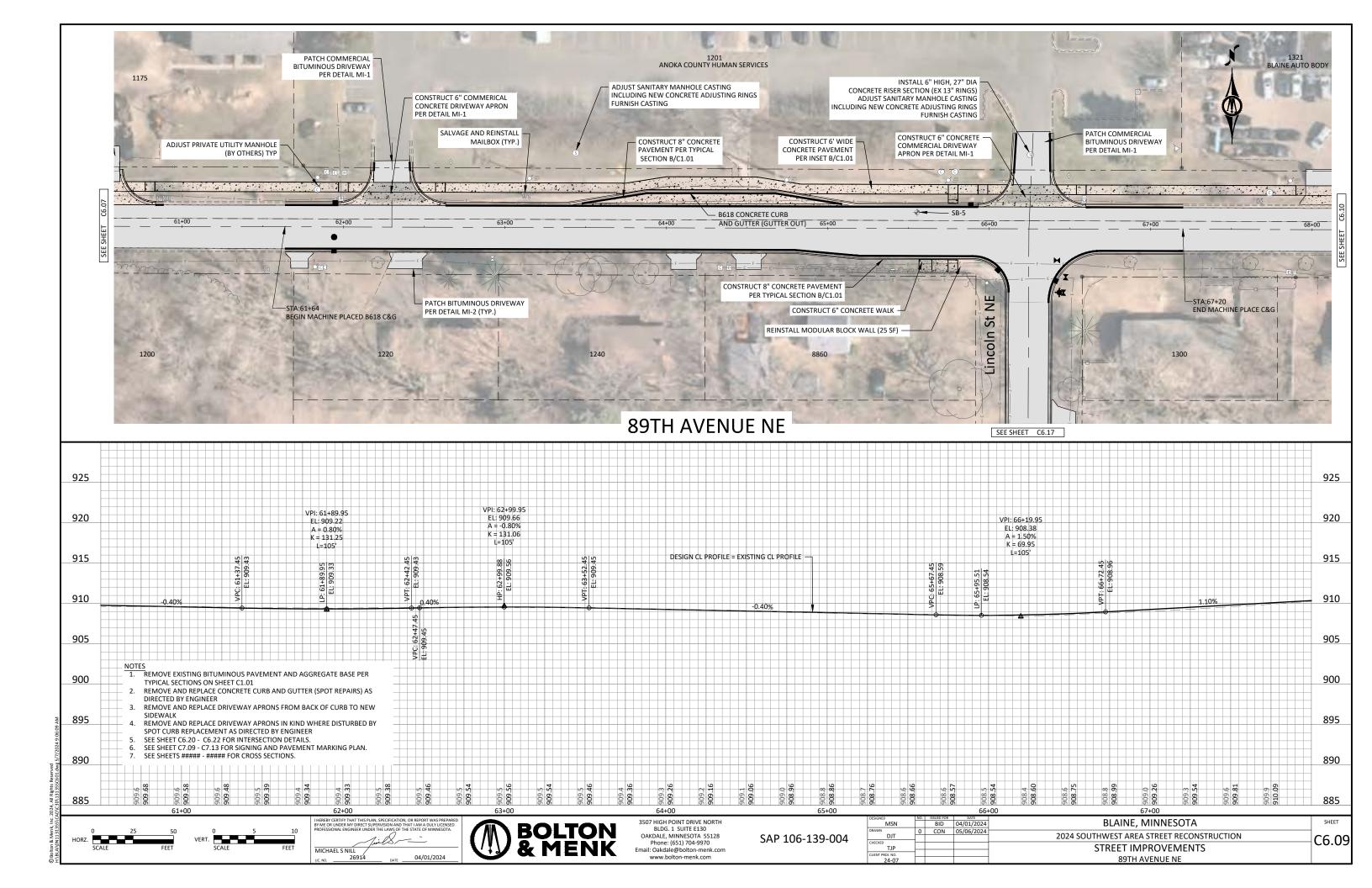


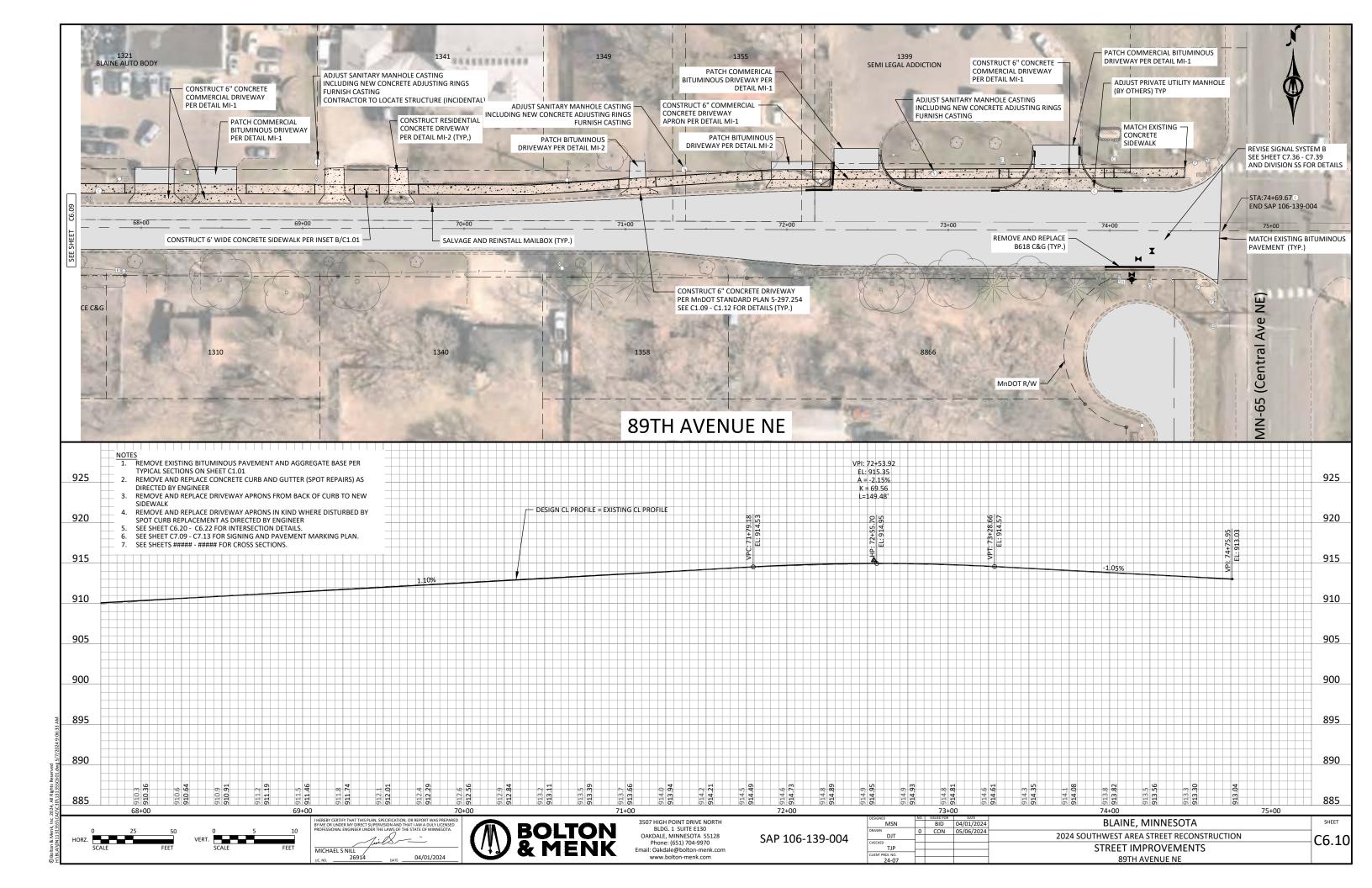


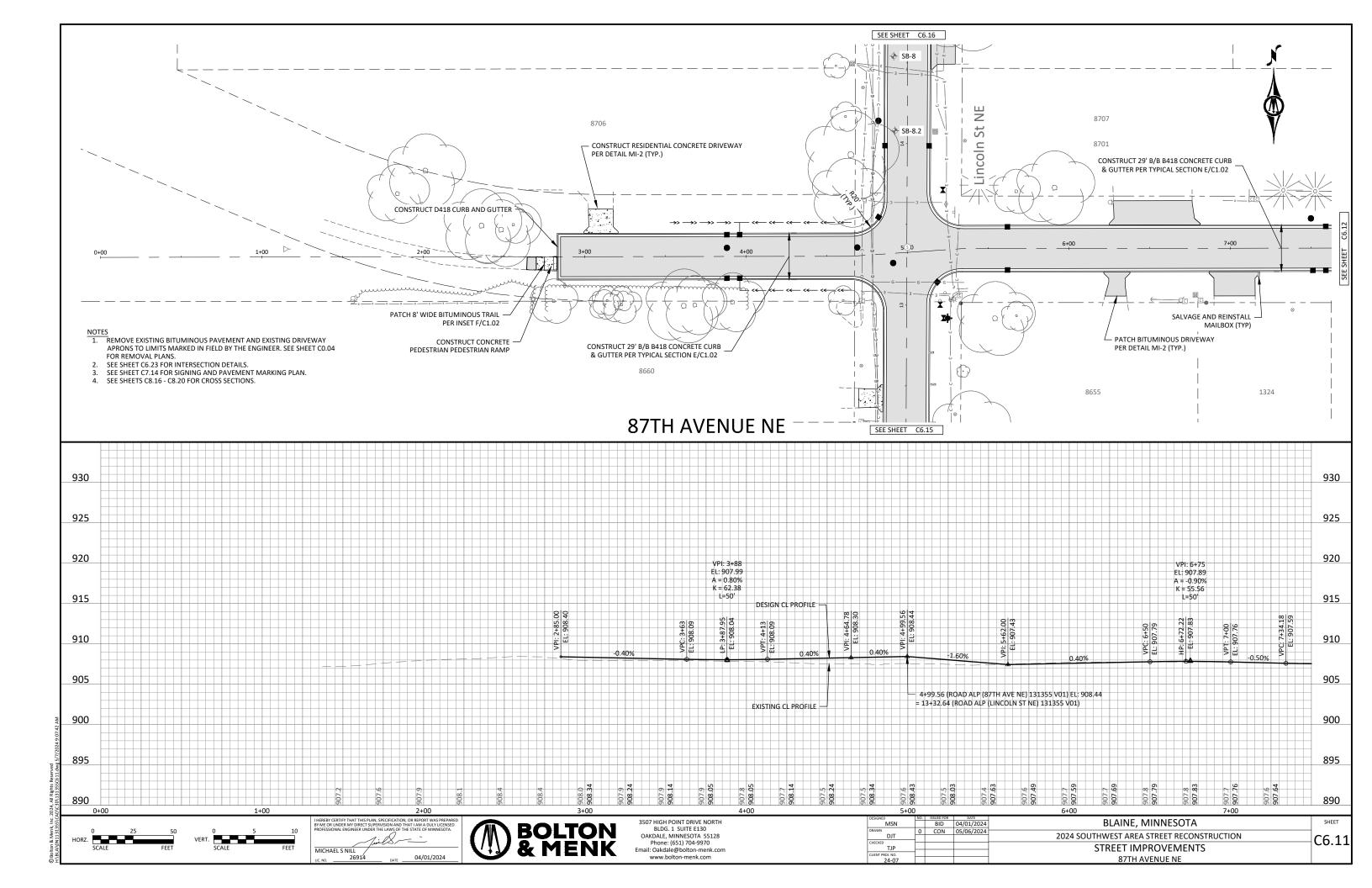


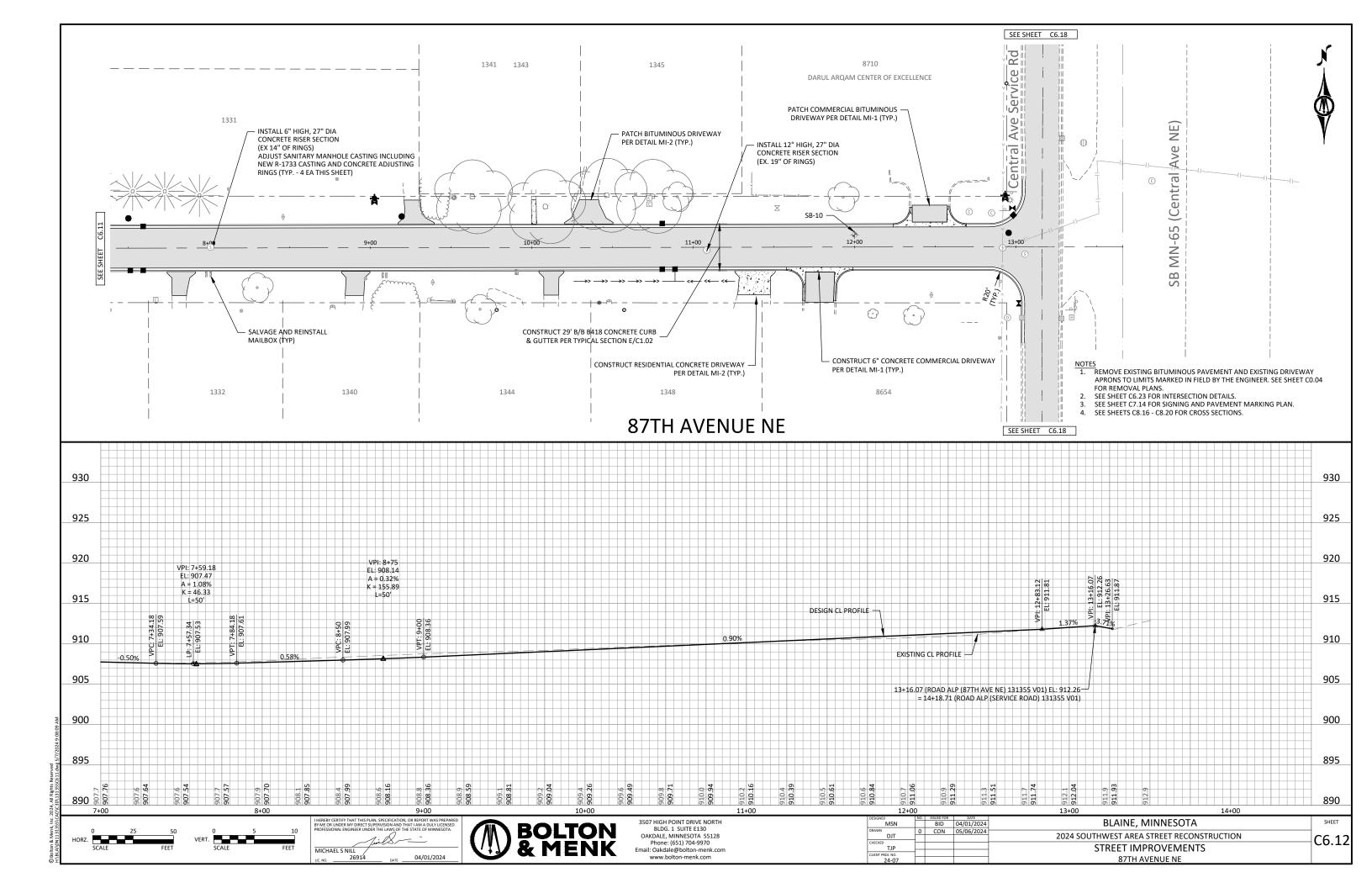


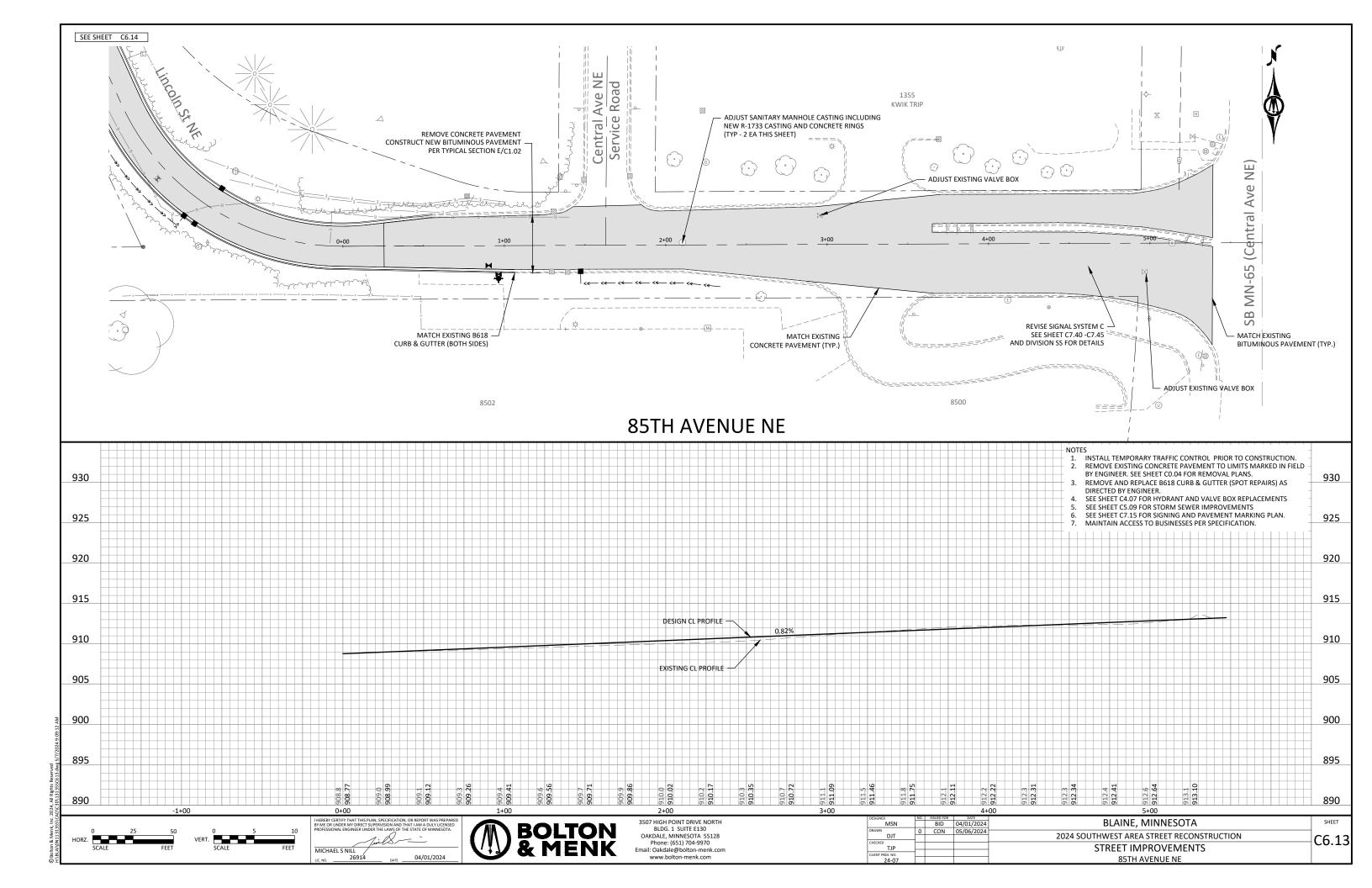


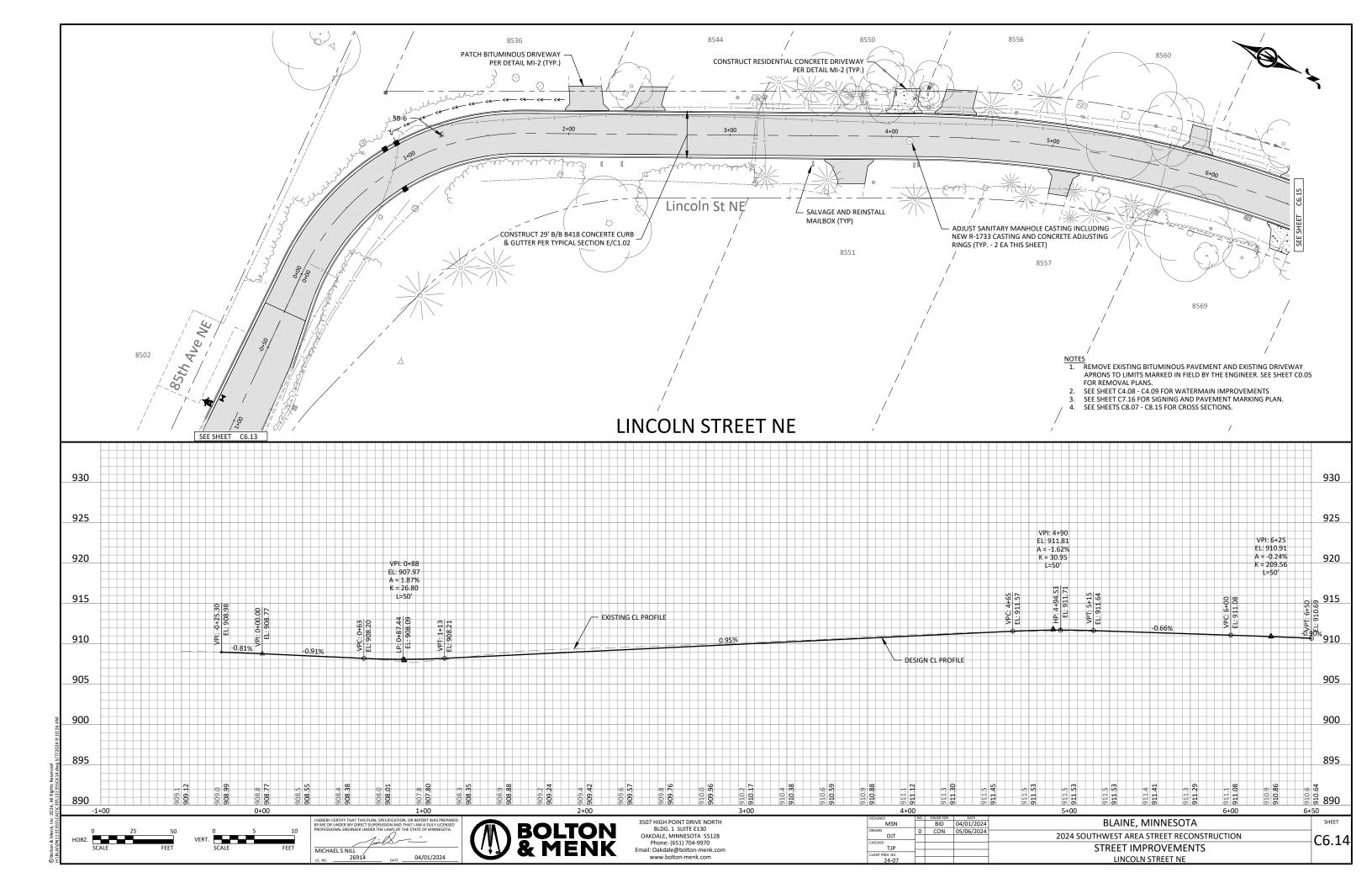


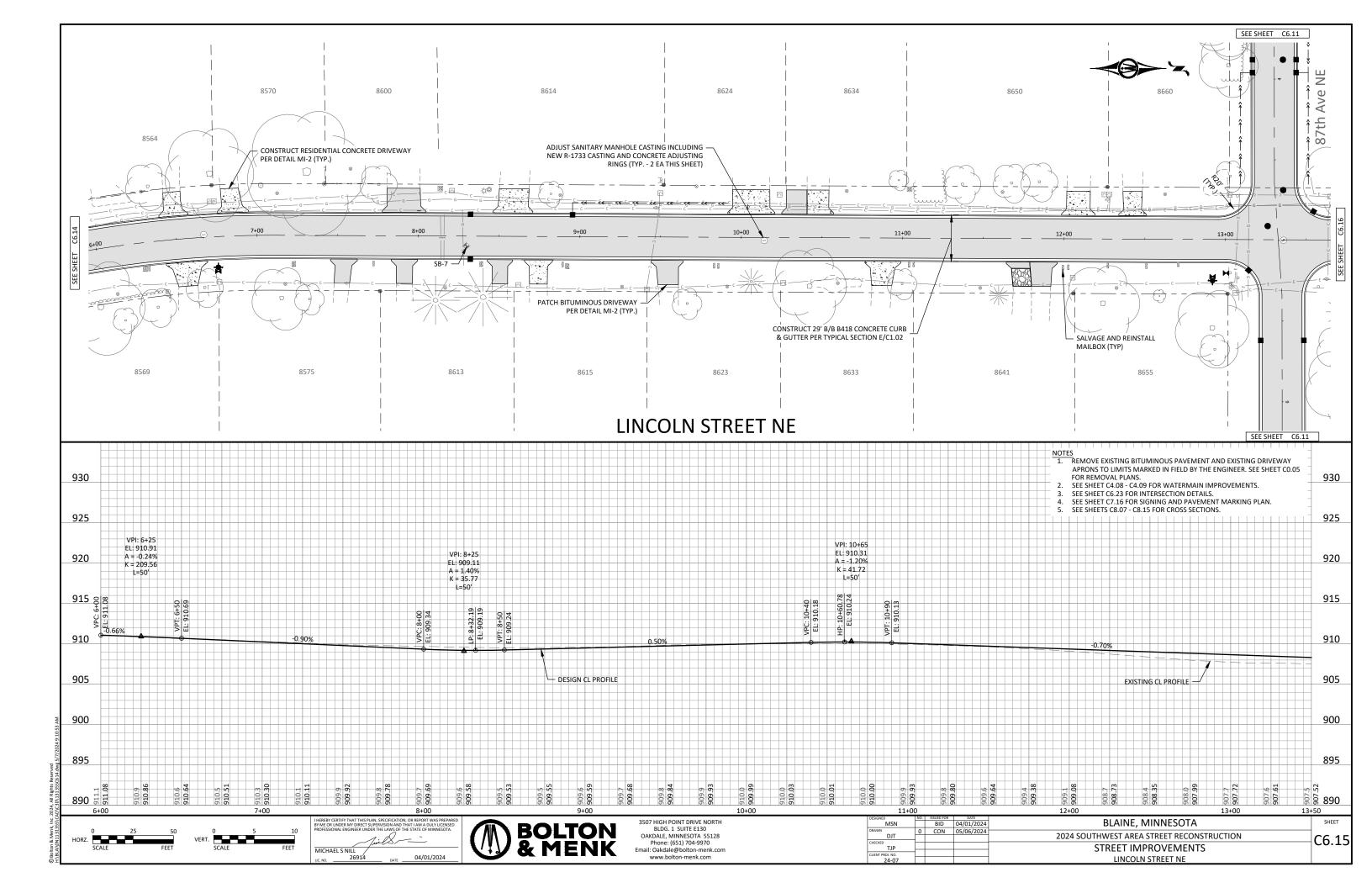


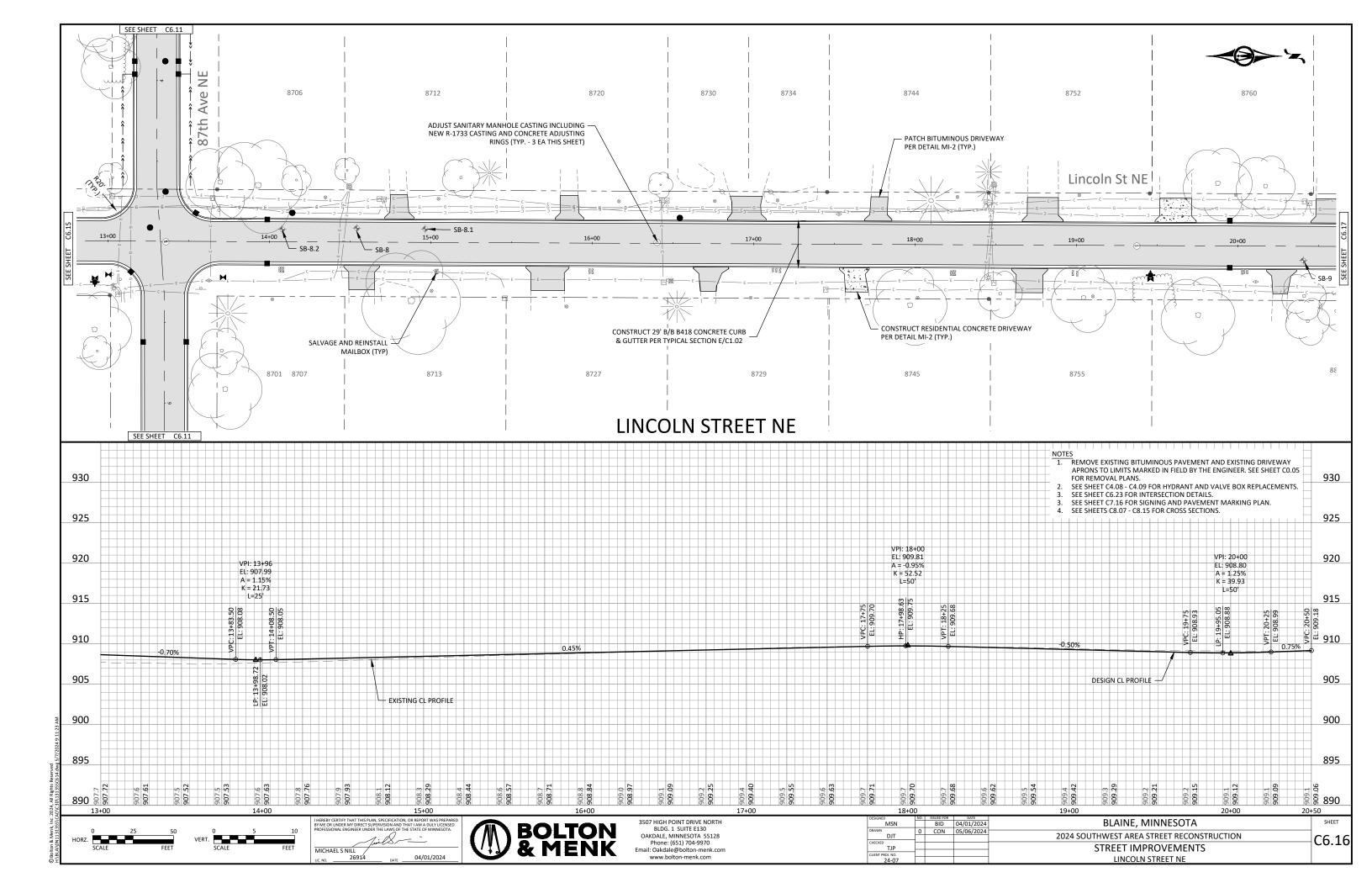


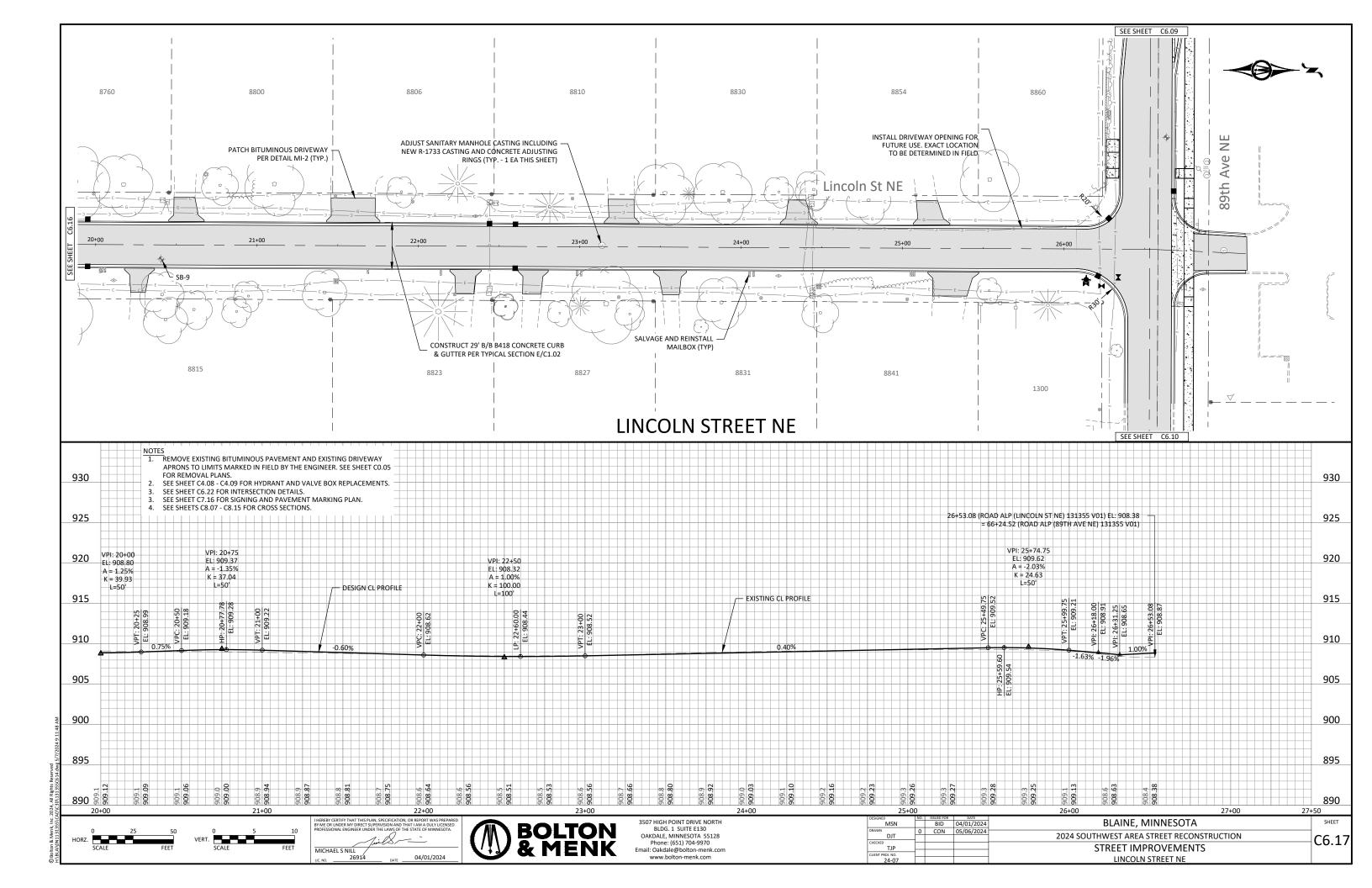


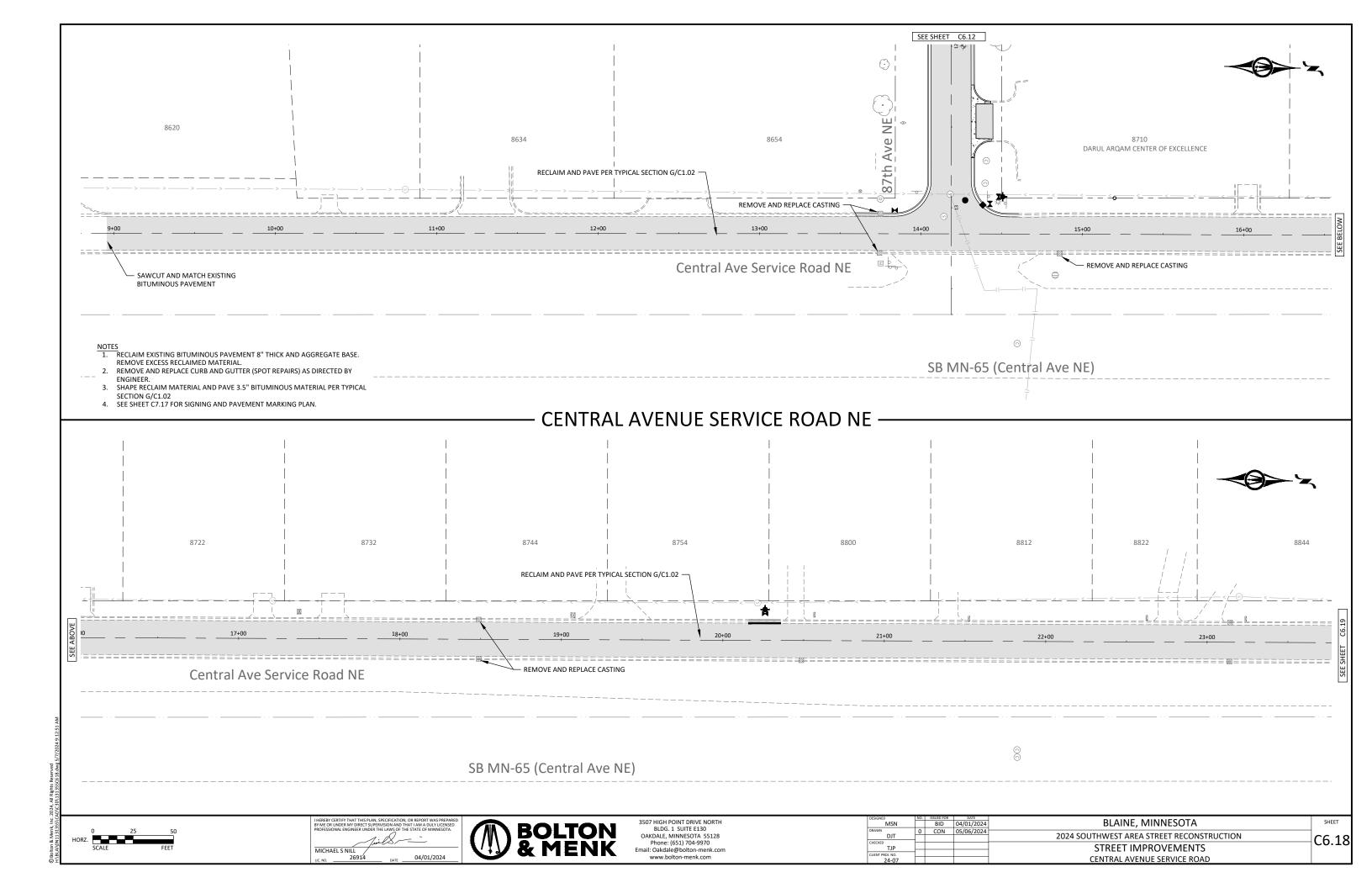


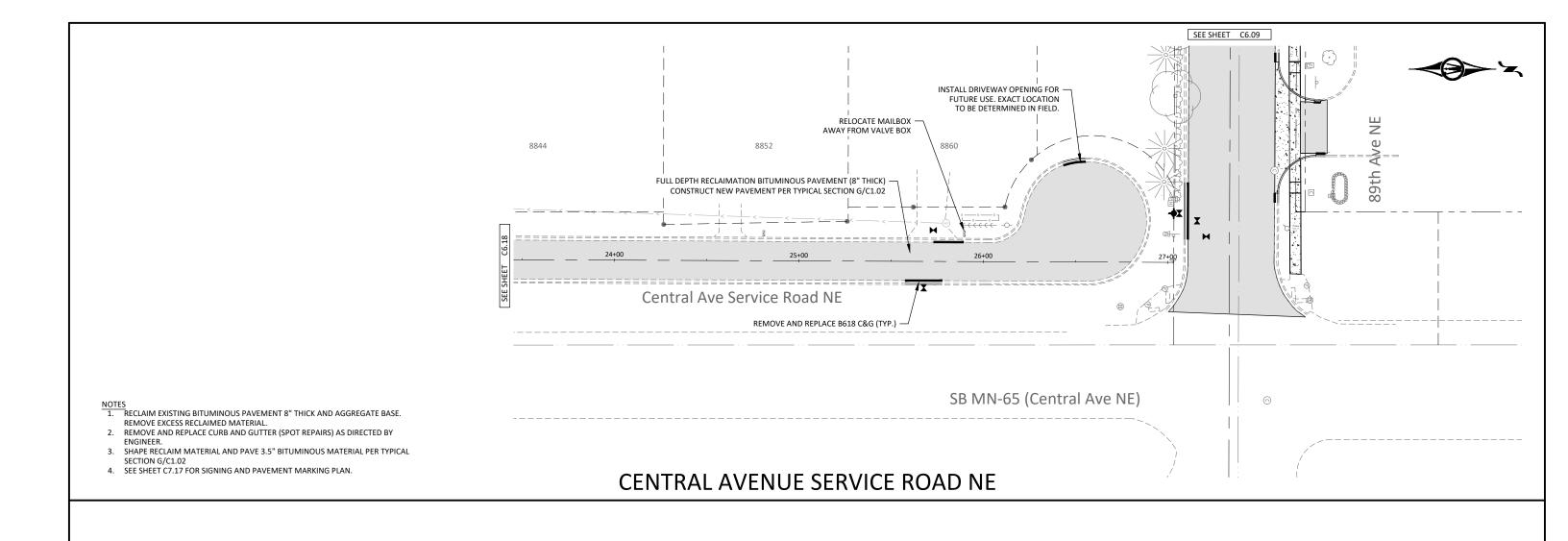












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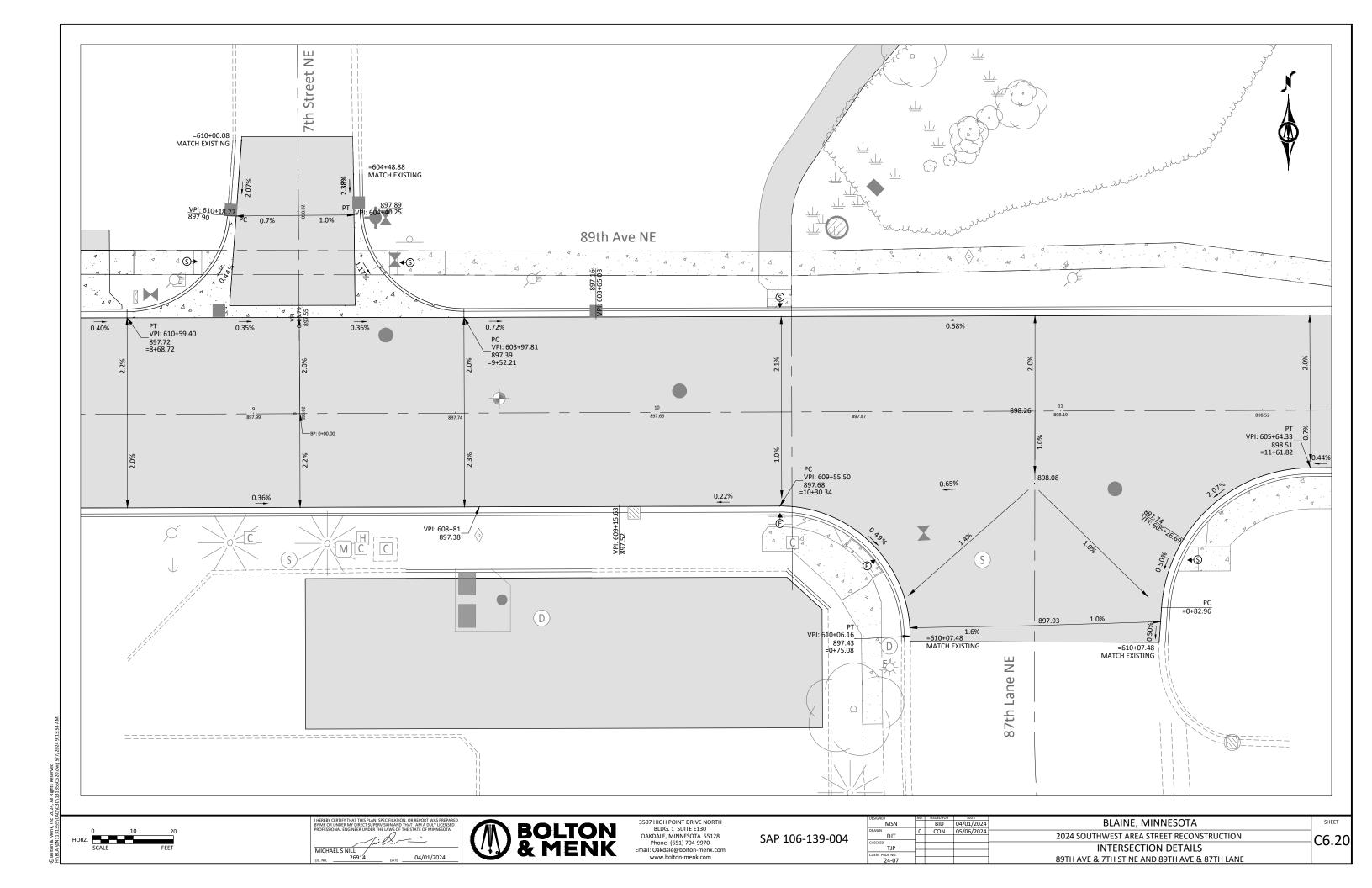
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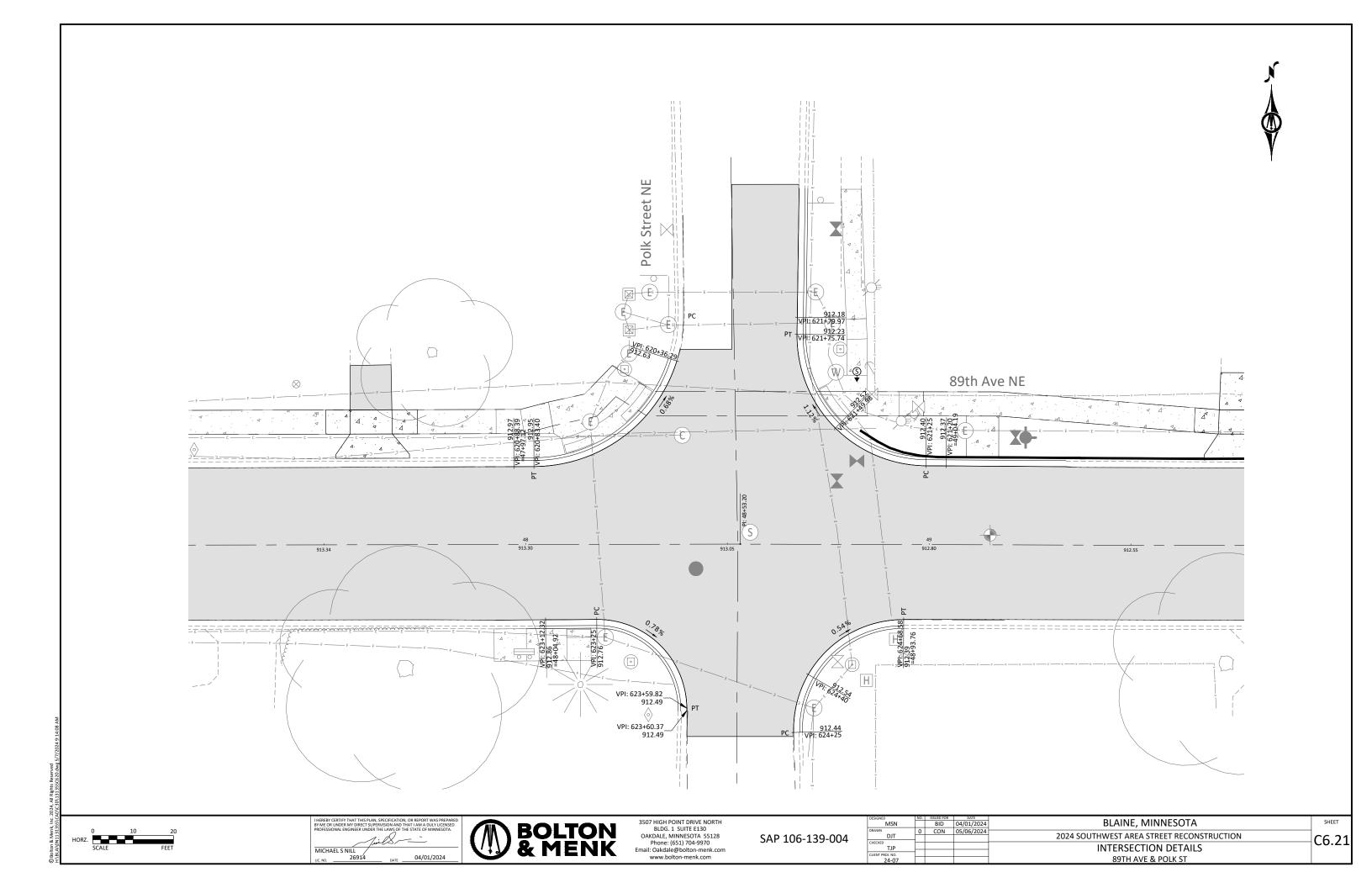
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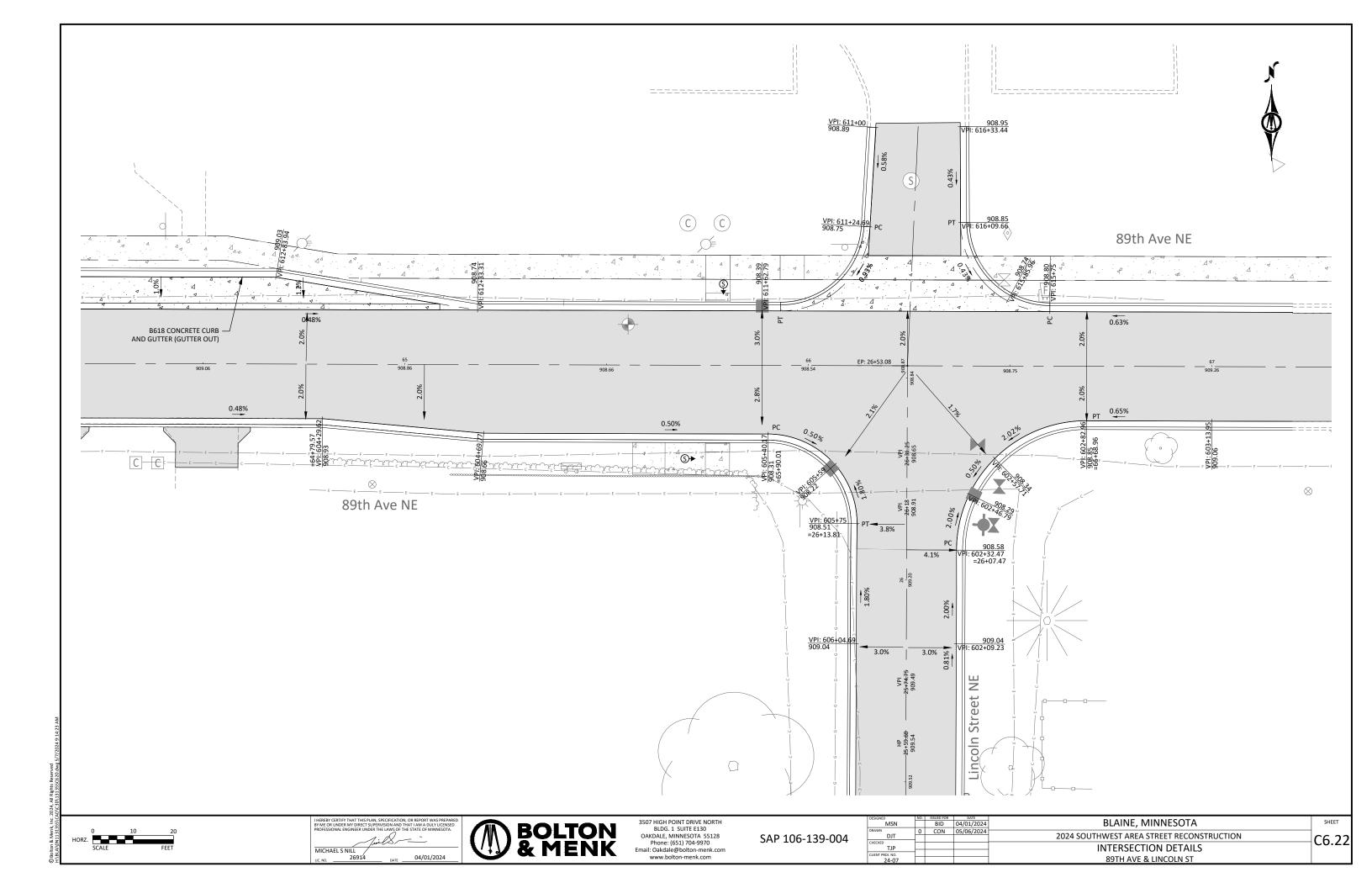


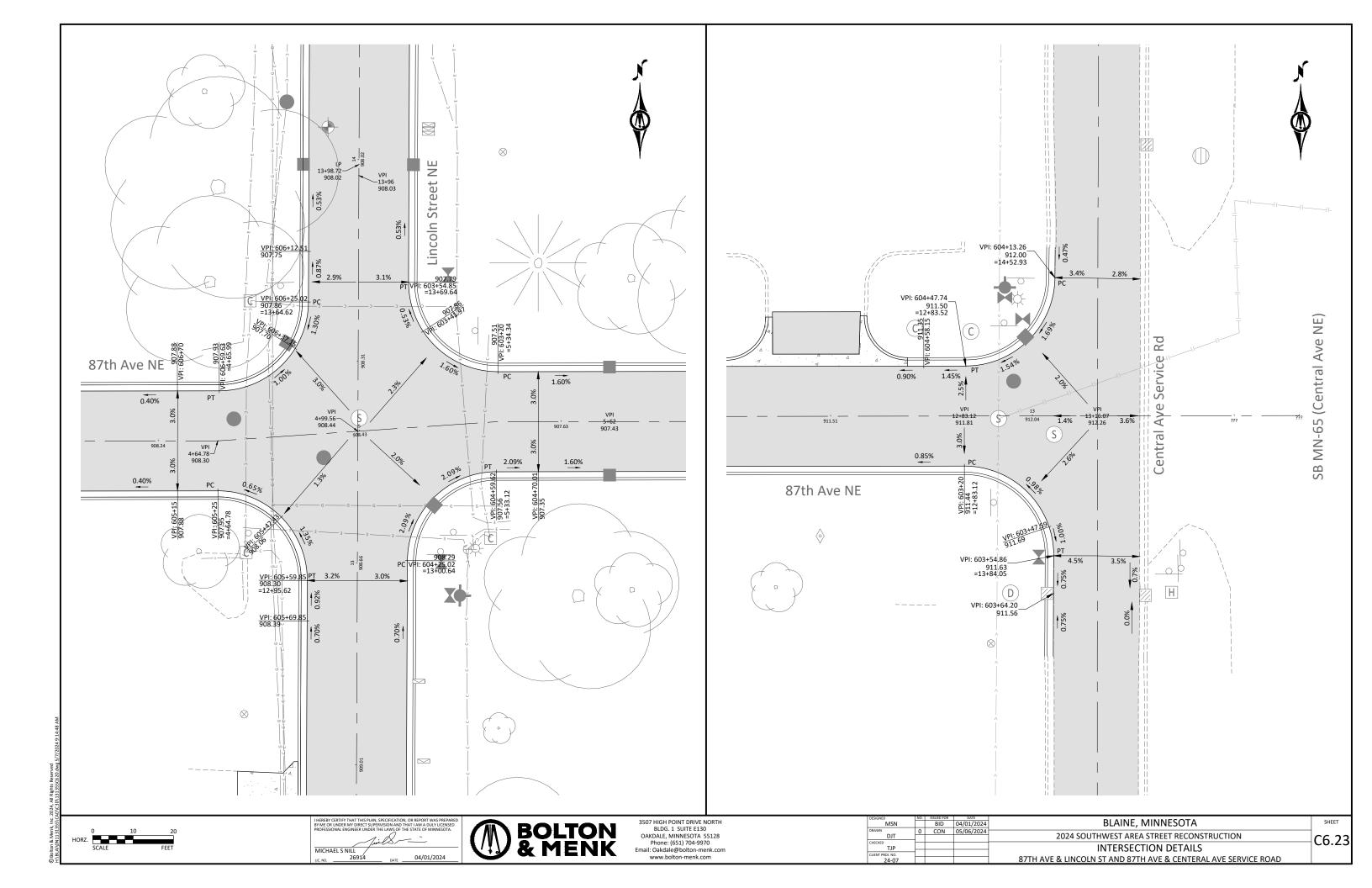
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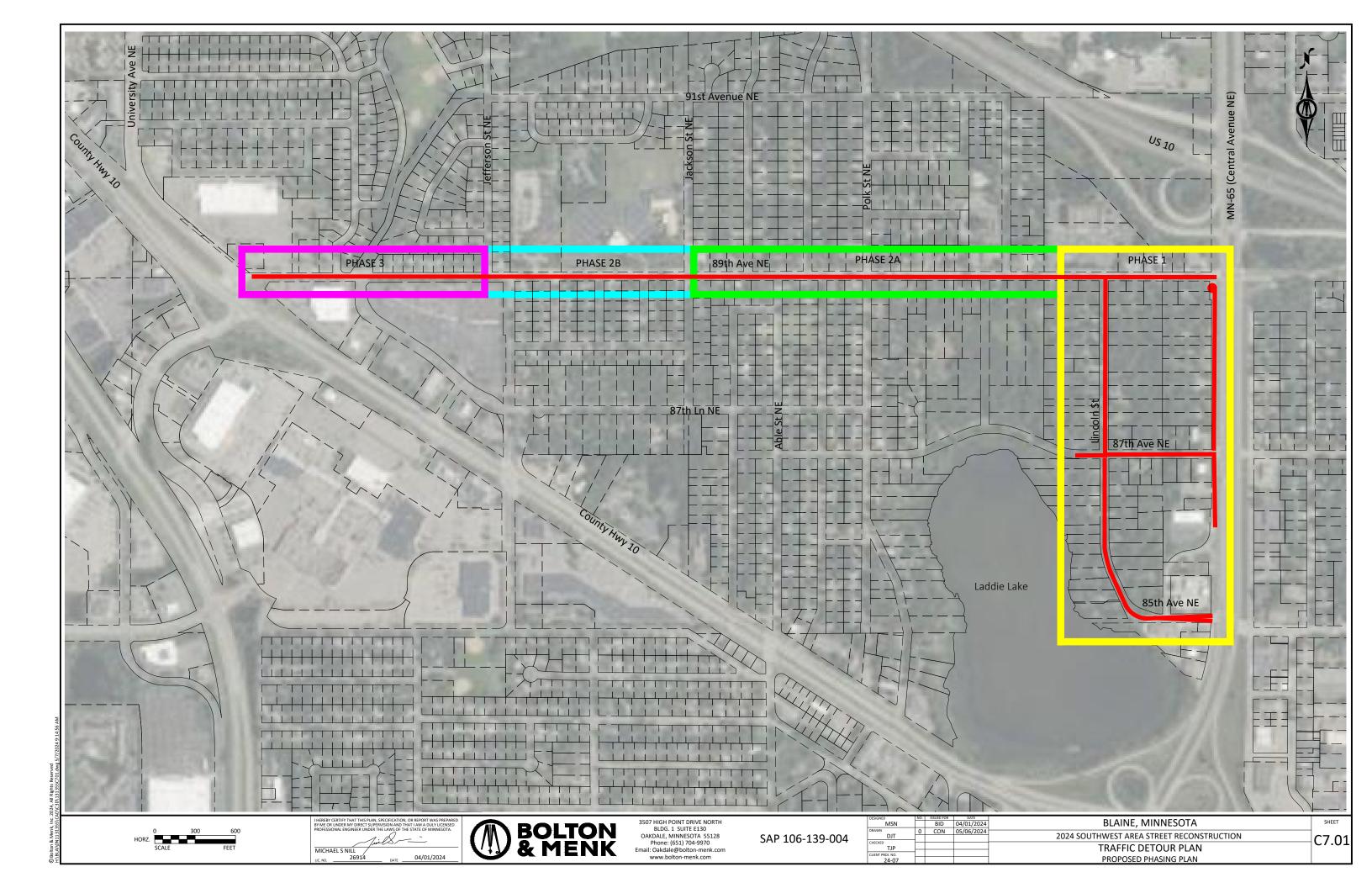
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Background

6PPD-Q is a compound used to prevent tires from degrading and cracking, ensuring driver safety. It is released from tires through normal wear. Once on the roads and in the atmosphere, it can enter streams through dust transport, rain, and storm runoff where fish and other organisms can be exposed.

Coho salmon are particularly sensitive to exposure to 6PPD-Q, and current research is showing other fish like brook trout and rainbow trout are also affected.

It has been characterized as the second most toxic chemical for aquatic animal life, and has been detected in human urine, raising concerns for human health.

There remain many questions about 6PPD-Q that need to be answered to understand its effects on the environment, wildlife, and people - including how it moves throughout the environment, at what levels is it found in water and sediment, how animals and people are exposed, effects of exposure, and how long 6PPD-Q lasts in these various locations.

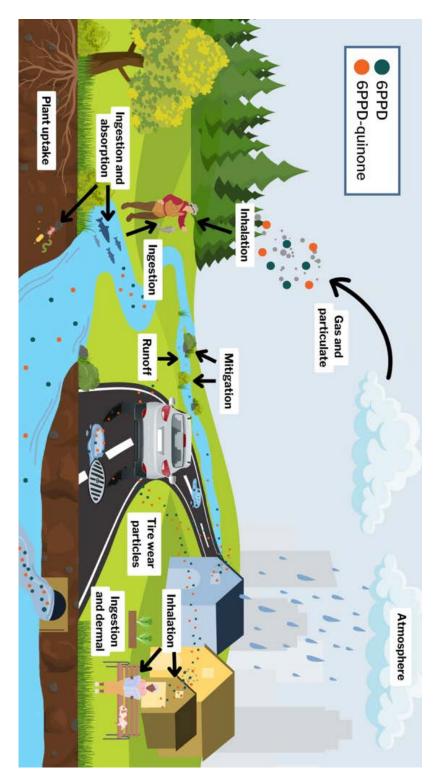
The U.S. Geological Survey (USGS) is studying 6PPD-Q and, through the Environmental Health Program's Integrated Science Teams and multiple Water Science Centers, has a wide range of capabilities uniquely positioned to study the movement, fate, and effects of 6PPD-Q in the environment.

- USGS Scientists are developing methods to understand movement, transport, and fate of 6PPD-Q, as well as uptake by aquatic organisms to develop effective treatment methods.
 - As part of this, analytical methods to understand 6PPD-Q stability, persistence, and accumulation in sediments and in organisms (bioaccumulation in individuals, and biomagnification up food webs) are being developed.
- USGS scientists have developed methods to test the safety of alternative tire additives.
 - o USGS is working with international, Federal, State, and Tribal agencies, as well as the tire manufacturing industry to find chemical alternatives that are safer for the environment and still support long-lasting tires and safe driving.

(excerpted from https://www.usgs.gov/programs/environmental-health-program/science/6ppd-quinone)

Partnership with CCWD

The USGS Upper Midwest Water Science Center has reached out to CCWD and other local partners to help with research on the prevalence of CECS, including 6PPD-Q, in stormwater, and the ability for stormwater BMPs to effectively remove them. Two CCWD biochar and ironenhanced sand stormwater filters were selected as study sites: Woodcrest and Epiphany Creek Filters, both in Coon Rapids. They can show specific effectiveness of biochar compared with iron-enhanced sand mixtures.



Conceptual diagram of 6PPD (green circles) and 6PPD-Q (orange circles) sources, movement, and fate in the environment.

Shown with permission from the Washington State Department of Ecology.